



BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

NOTICE OF ACCEPTANCE (NOA)

KML Windows, Inc.
23 Buchanan Court
London, Ontario, Canada N5Z 4P9

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Aluminum Clad Outswing Wood French Door-Impact

APPROVAL DOCUMENT: Drawing No.1228A, titled "Aluminum Clad Wood French Impact Doors", sheets 1 through 12 of 12, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 5/13/03, signed and sealed by Warren Schaefer, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA # 00-1030.02 and, consists of this page 1 as well as approval document mentioned above. The submitted documentation was reviewed by **Theodore Berman, P.E.**

9/15/2003



NOA No 03-0625.03
Expiration Date: April 26, 2004
Approval Date: October 09, 2003
Page 1

KML Windows, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

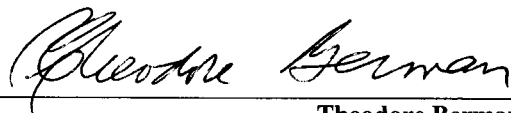
1. Manufacturer's die drawings and sections.
2. Drawing No. **1228A**, titled "Aluminum Clad Wood French Impact Doors", sheets 1 through 12 of 12, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 5/13/03, signed and sealed by Warren Schaefer, P.E.

B. TESTS

1. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with installation diagram of outswing wood French doors with different shape top, with & without sidelites, prepared by Architectural Testing, Inc., Test Report No. **ATI 02-35026.01**, dated 2/19/03, signed and sealed by Steven Urich, P.E

Submitted under NOA# 00-1030.02

2. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94
along with installation diagram of outswing wood French doors with different shape top, with & without sidelites, prepared by Intertek Testing Services NA Inc., Test Report No. **J99022770-231-07**, dated 10/11/00, signed and sealed by Douglas Keith Tucker, P.E
3. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94
along with installation diagram of outswing wood French doors with different shape top, with & without sidelites, prepared by Intertek Testing Services NA Inc., Test Report No. **J99022770-231-08**, dated 10/11/00, signed and sealed by Douglas Keith Tucker, P.E



Theodore Berman, P.E.
Deputy Director, Product Control Division
NOA No 03-0625.03
Expiration Date: April 26, 2004
Approval Date: October 09, 2003

KML Windows, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS

1. Anchor Calculations and ASTM-E1300-98 analysis, dated 6/18/03, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren Schaefer, P.E.

Submitted under NOA# 00-1030.02

1. Engineering Calculations prepared by W.W. Schaefer Engineering & Consulting, P.A, dated 8/28/00, revised on 8/28/00, sheets 1 thru 12 of 12, signed and sealed by Warren W. Schaefer, P.E.

D. MATERIAL CERTIFICATIONS

Submitted under NOA# 00-1030.02

1. Notice of Acceptance No. **00-0524.06** issued to Nebula Glass International Inc. for "Glasslam Safety-Plus Laminated Glass" dated 9/21/00, expiring on 9/9/03.
2. Notice of Acceptance No. **02-0828.16** issued to E.I. DuPont DeNemours for "Dupont Butacite ® PVB" dated 11/21/02, expiring on 12/11/05.

E. QUALITY ASSURANCE

1. Miami-Dade County Building Code Compliance Office.

F. STATEMENTS

1. Laboratory compliance letter for Test Report no. **ATI 02-35026.01**, issued by Architectural Testing, Inc., dated 2/19/03, signed and sealed by Steven Urich, P.E.

F. OTHER

1. Notice of Acceptance No. **00-1030.02**, issued to KML Window, Inc., Aluminum Clad Outswing Wood French Door, approved on 4/26/01 and expiring on 4/26/04.

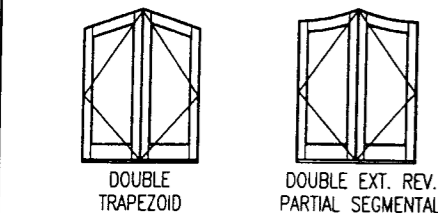
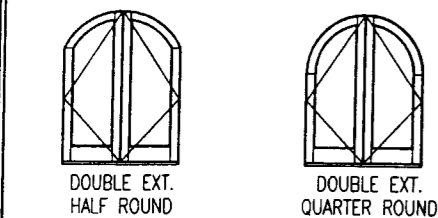
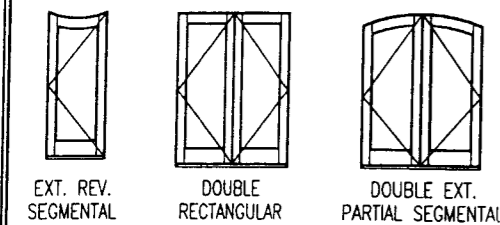
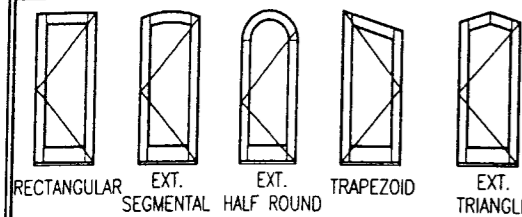

Theodore Berman, P.E.

Deputy Director, Product Control Division

NOA No 03-0625.03

Expiration Date: April 26, 2004

Approval Date: October 09, 2003



SHAPES CONSIDERED AS PART OF THIS APPROVAL

NOTE: FOR COMBINATION OF UNITS. SEE SHEET 3 & MULLION DRAWING NO. 1003E UNDER SEPERATE APPROVAL

ALLOWABLE DESIGN LOADS

+65 PSF/-70 PSF

FOR JAMB FASTENER EMBED & EDGE DISTANCE REQUIREMENTS SEE SHEET 3

GENERAL NOTES

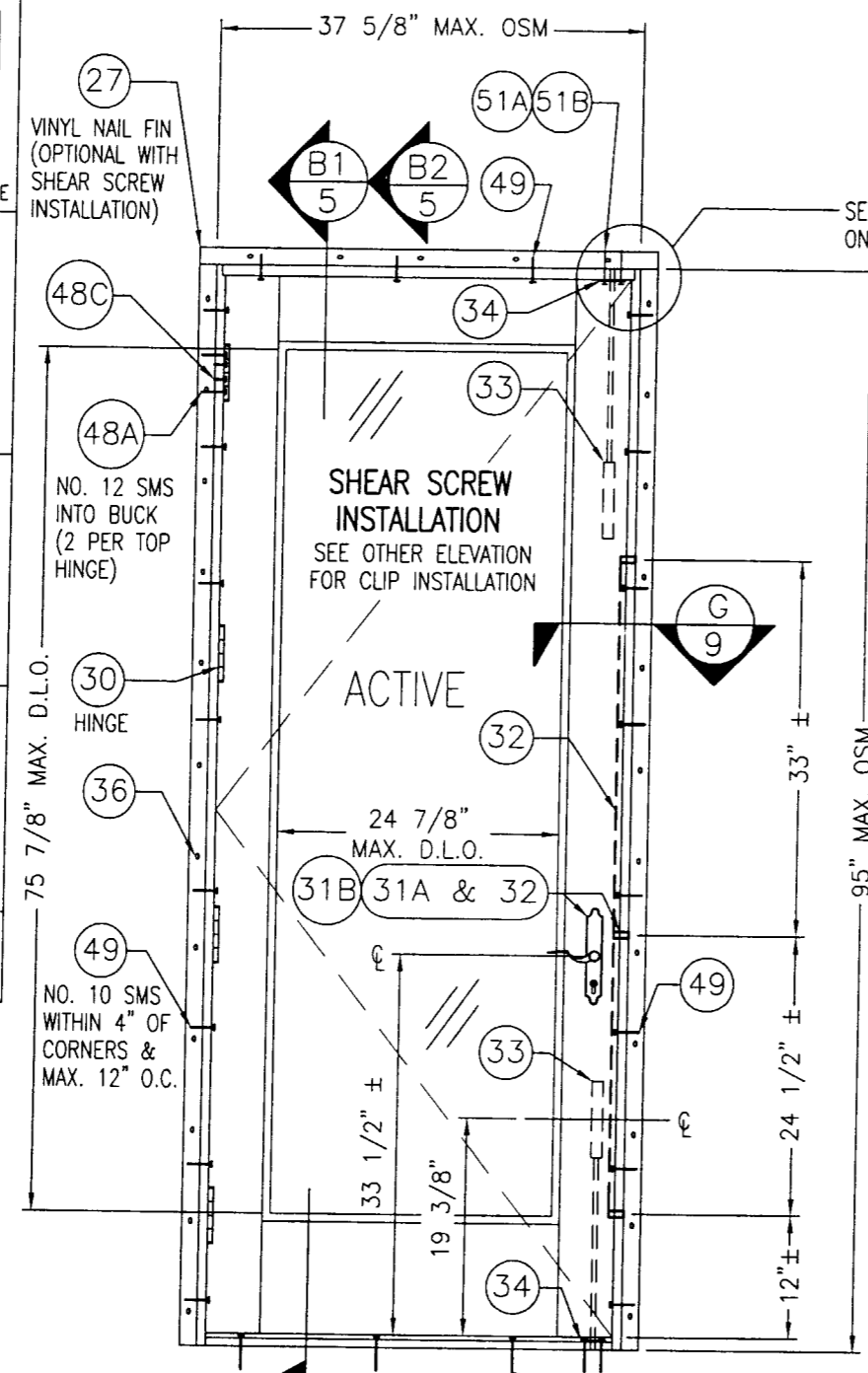
1. THESE DOOR SYSTEMS HAVE BEEN TESTED, ANALYZED AND APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN ON THESE DRAWINGS.
2. BUCKING, OPENINGS & BUCKING FASTENERS MUST BE DESIGNED & INSTALLED TO WITHSTAND WIND LOADS AS DETERMINED FOR EA. APPLICATION.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & MAY NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH FLORIDA BUILDING CODE PROTOCOLS TAS 201, 202 & 203 FOR IMPACT DOORS.

5. ALL JAMB TO BUCKING SHEAR FASTENERS MUST PENETRATE BUCK A MINIMUM OF 1 3/8". IF PENETRATION IS LESS THAN 1 3/8" THEN SCREW LENGTH SHALL INCREASE AS REQUIRED.
6. THESE DOOR SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (FBC).
7. THIS PRODUCT HAS BEEN TESTED IN ACCORDANCE WITH FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT, STRUCTURAL & CYCLIC TESTING.

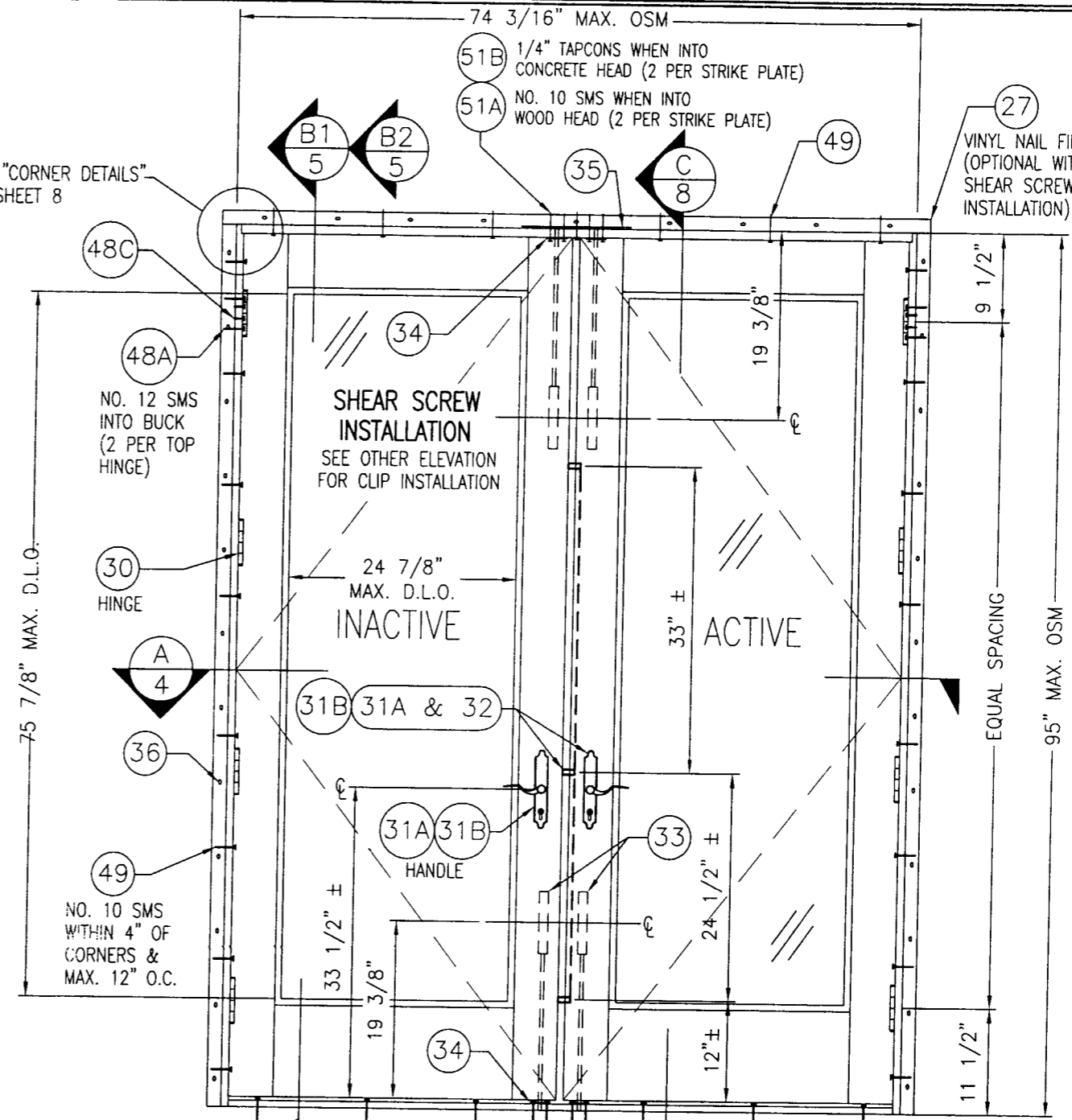
PRODUCT REVISED
As complying with the Florida Building Code
Acceptance No. 03-0625.03
Expiration Date 04/26/04

By *Warren W. Schaefer*
Miami Dade Product Control Division

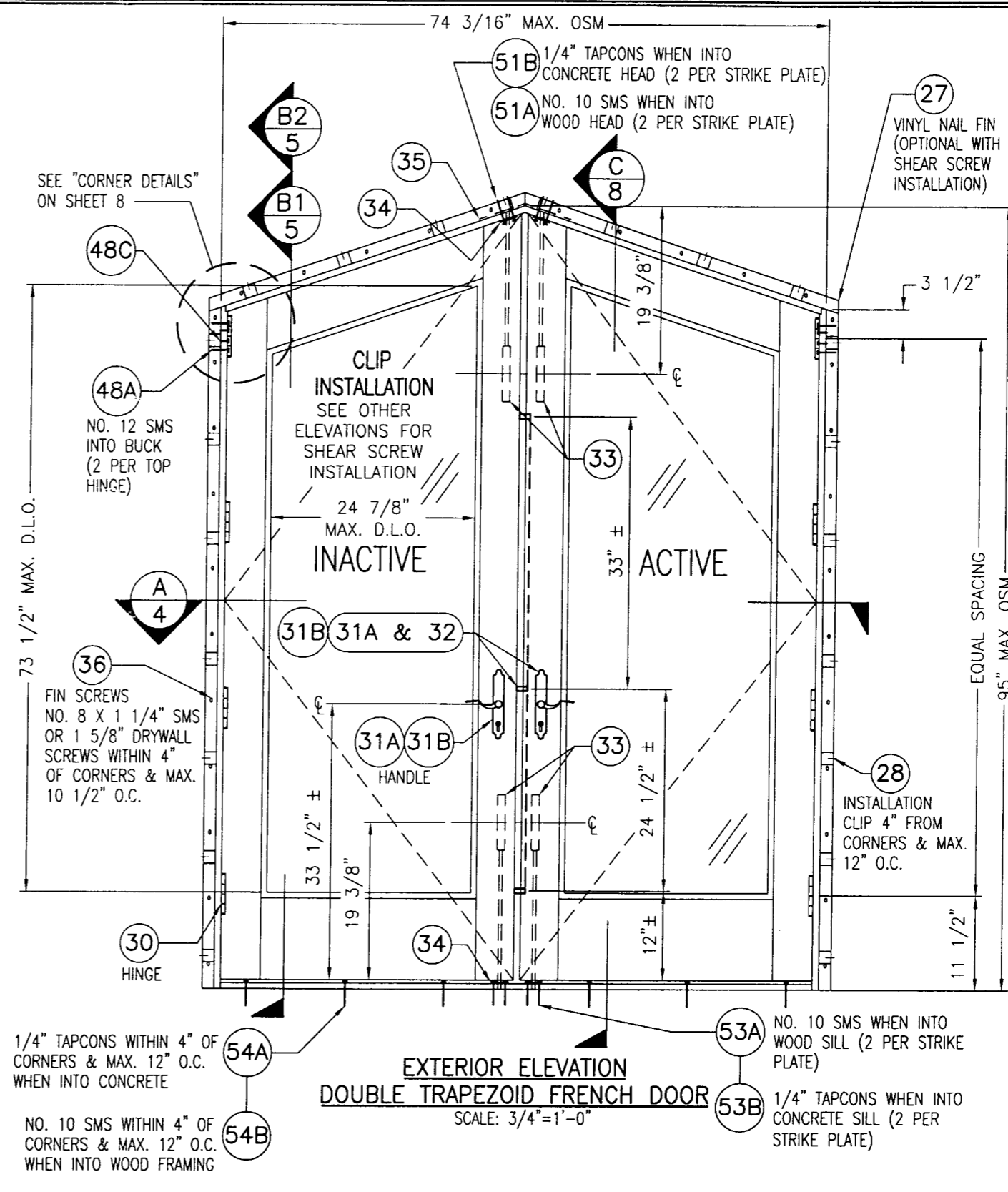
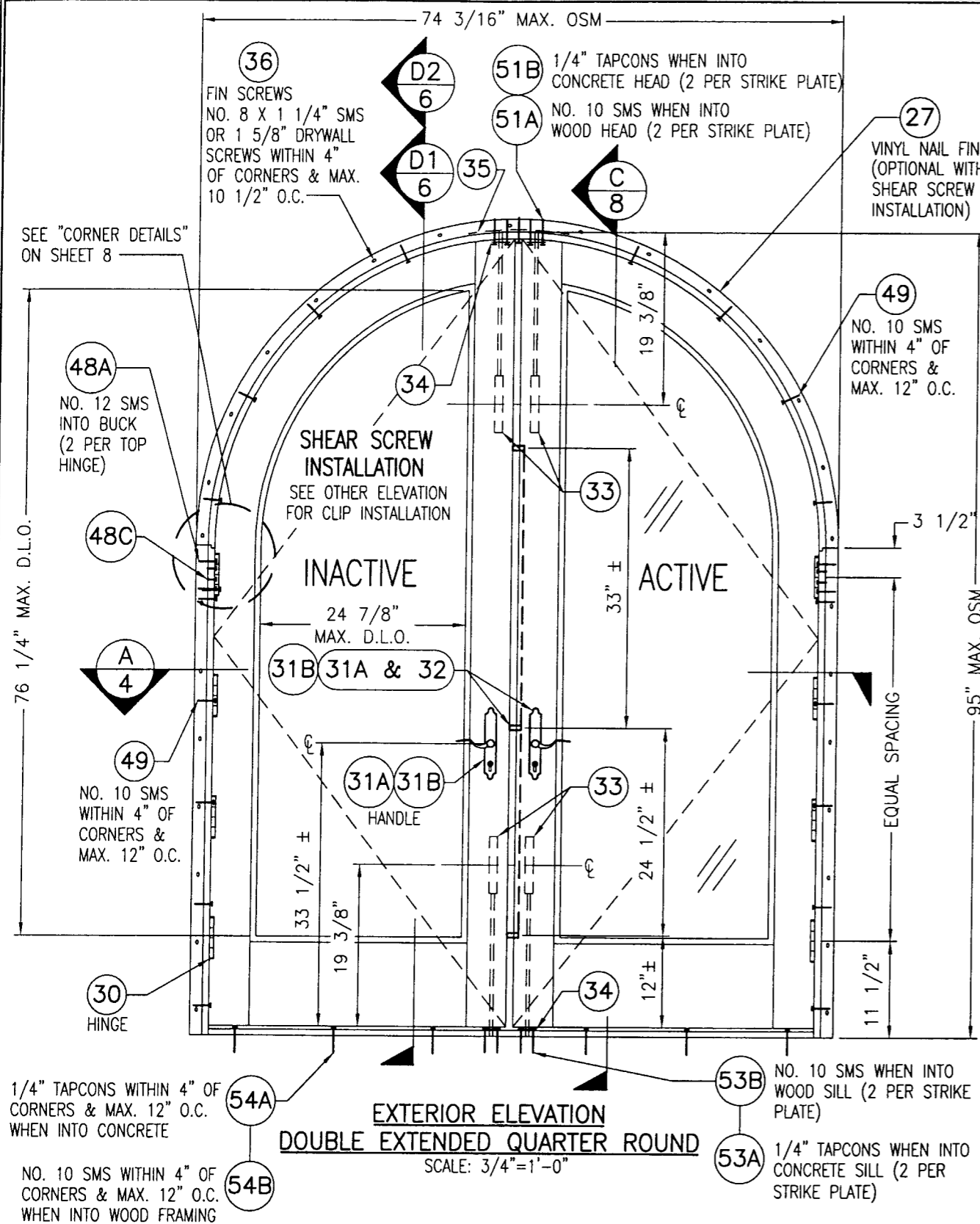
**EXTERIOR ELEVATION
SINGLE RECTANGULAR FRENCH DOOR**
SCALE: 3/4"=1'-0"



**EXTERIOR ELEVATION
DOUBLE RECTANGULAR FRENCH DOOR**
SCALE: 3/4"=1'-0"



DRAWING BY: K.P.S.		CHECKED BY: W.W.S.	
PLOT: 1=16		DATE: 05/13/03	
NO.	REVISION DESCRIPTION	DATE	BY
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
DRAWING TITLE: ALUMINUM CLAD WOOD FRENCH IMPACT DOORS			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.		MANUFACTURER: KML WINDOWS, INC.	
8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903		23 BUCHANAN COURT LONDON, ONTARIO, CANADA N5Z4P9 (519) 681-7012	
CERTIFICATION: JUN 18 2003		WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1228A		REV.	
SHEET NO. 1 OF 12			



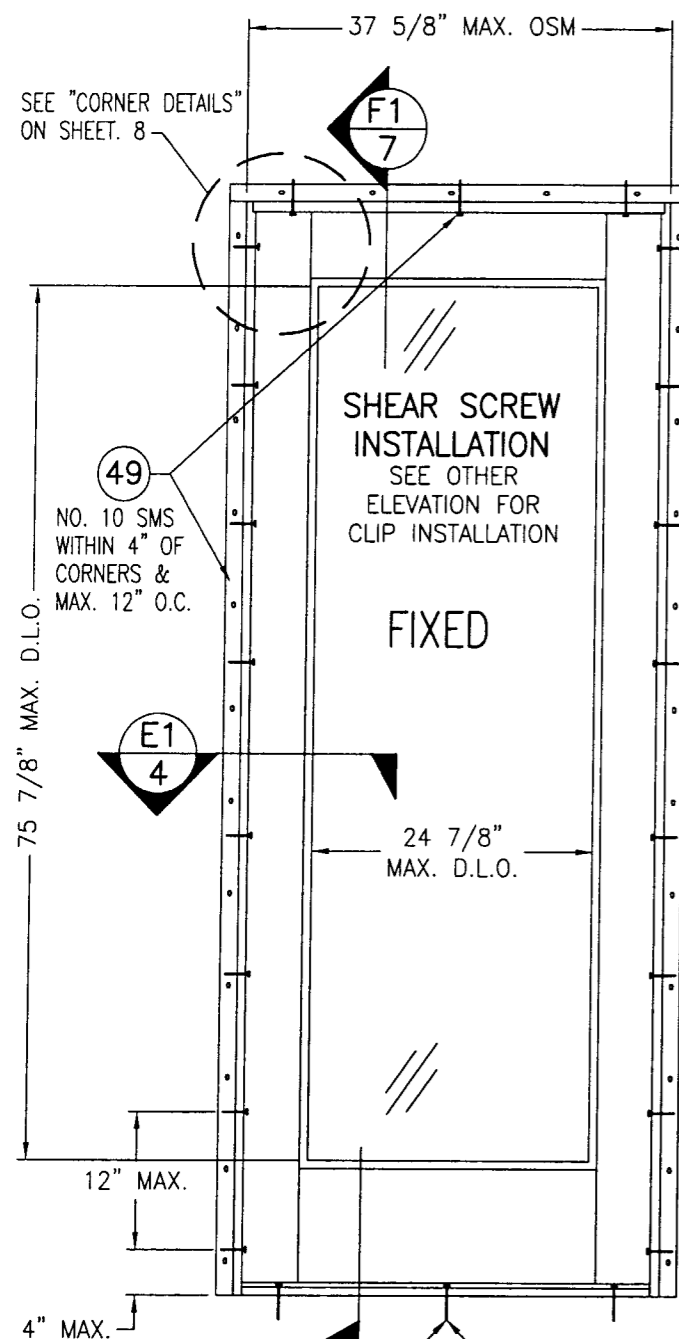
NOTE: FOR COMBINATION OF UNITS. SEE SHEET 3 & MULLION DRAWING NO. 1003E UNDER SEPERATE APPROVAL

ALLOWABLE DESIGN LOADS
+65 PSF/-70 PSF

FOR JAMB FASTENER EMBED & EDGE DISTANCE REQUIREMENTS SEE SHEET 3

PRODUCT REVIEWED
as complying with the Florida Building Code
Acceptance No. 03-0625.03
Expiration Date 04/26/04
By: *Barbara Berman*
Miami Dade Product Control Division

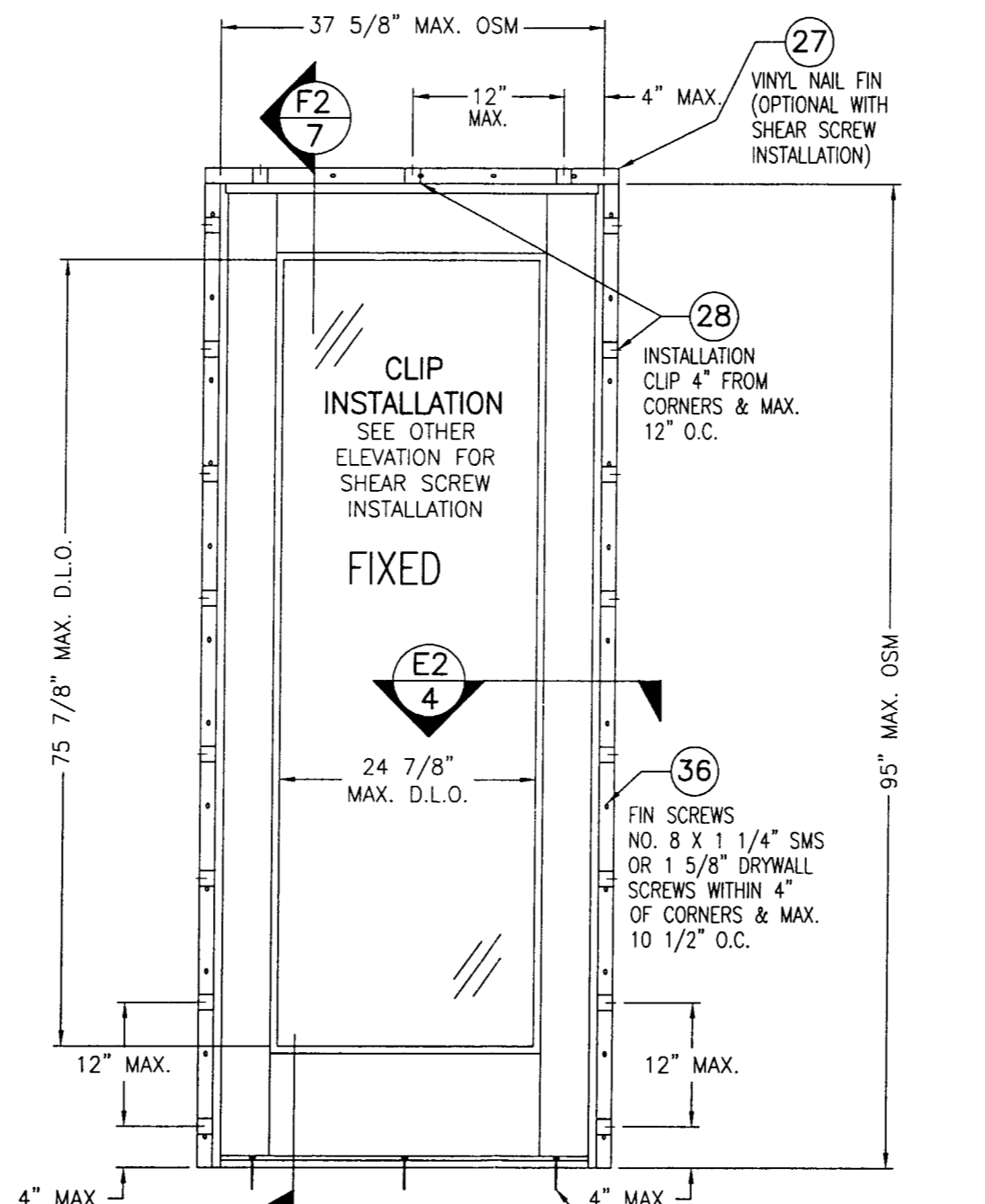
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PLOT: 1=16		DATE: 05/13/03	
NO.	REVISION DESCRIPTION	DATE	BY
ALUMINUM CLAD WOOD FRENCH IMPACT DOORS MANUFACTURER: KML WINDOWS, INC. 23 BUCHANAN COURT LONDON, ONTARIO, CANADA N5Z4P9 (519) 681-7012			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903			
CERTIFICATION JUN 18 2003 <i>Warren W. Schaefer</i> WARREN W. SCHAEFER, P.E. P.E. NO. 44135		DRAWING NO. 1228A SHEET NO. 2 OF 12	



1/4" TAPCONS WITHIN 4" OF
CORNERS & MAX. 12" O.C.
WHEN INTO CONCRETE

NO. 10 SMS WITHIN 4" OF
CORNERS & MAX. 12" O.C.
WHEN INTO WOOD FRAMING

**EXTERIOR ELEVATION
FIXED PANEL DOOR/SIDELITE**
SCALE: 3/4"=1'-0"



1/4" TAPCONS WITHIN 4" OF
CORNERS & MAX. 12" O.C.
WHEN INTO CONCRETE

NO. 10 SMS WITHIN 4" OF
CORNERS & MAX. 12" O.C.
WHEN INTO WOOD FRAMING

**EXTERIOR ELEVATION
FIXED PANEL DOOR/SIDELITE**
SCALE: 3/4"=1'-0"

ALLOWABLE DESIGN LOADS

+65 PSF/-70 PSF

NOTE: FOR COMBINATION
OF UNITS. SEE
MULLION DRAWING
NO. 1003E UNDER
SEPERATE APPROVAL

JAMB FASTENER MIN. EMBEDMENT

NO. 10 SMS INTO BUCK = 1 3/8"
NO. 12 SMS INTO BUCK = 1 1/2"
1/4" TAPCON INTO CONCR./BLOCK = 1 1/4"


JAMB FASTENER MIN. EDGE DISTANCE

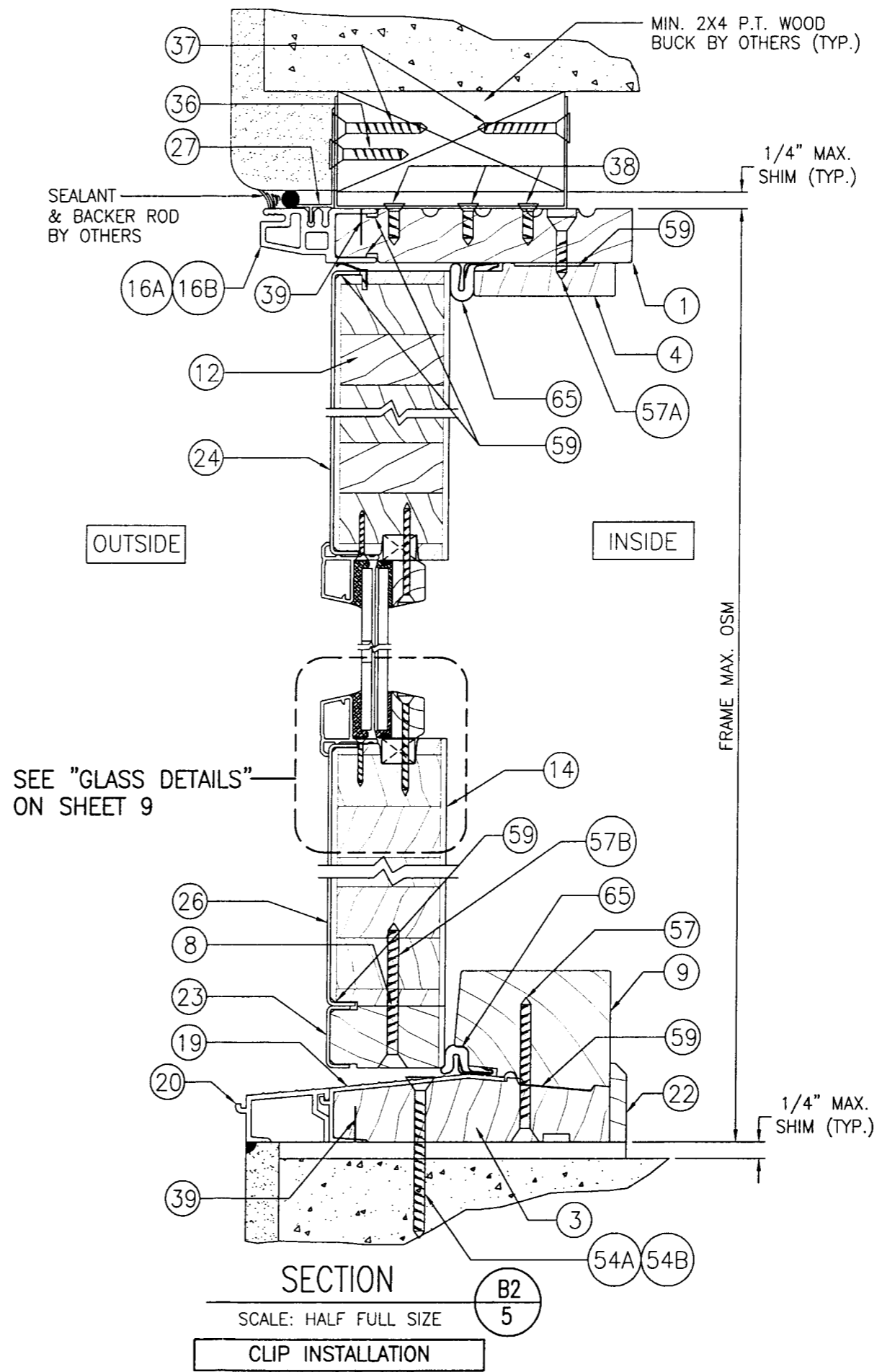
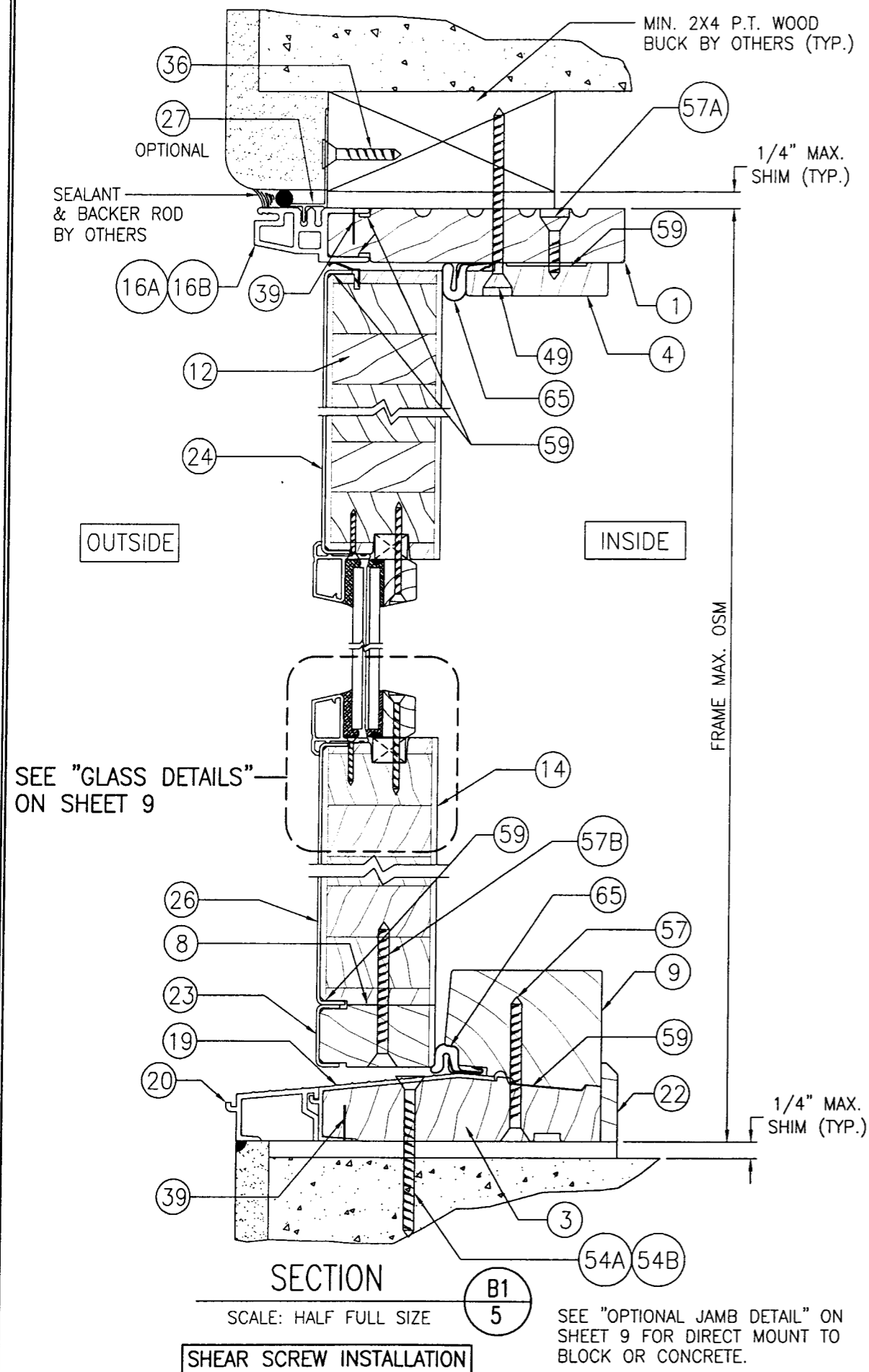
WOOD JAMB & BUCK = 1"
CONCR./BLOCK = 2"

PRODUCT REVISED

as complying with the Florida
Building Code
Acceptance No. 03-0625.03
Expiration Date 04/26/04

By *Warren W. Schaeffer*
Miami Dade Product Control
Division

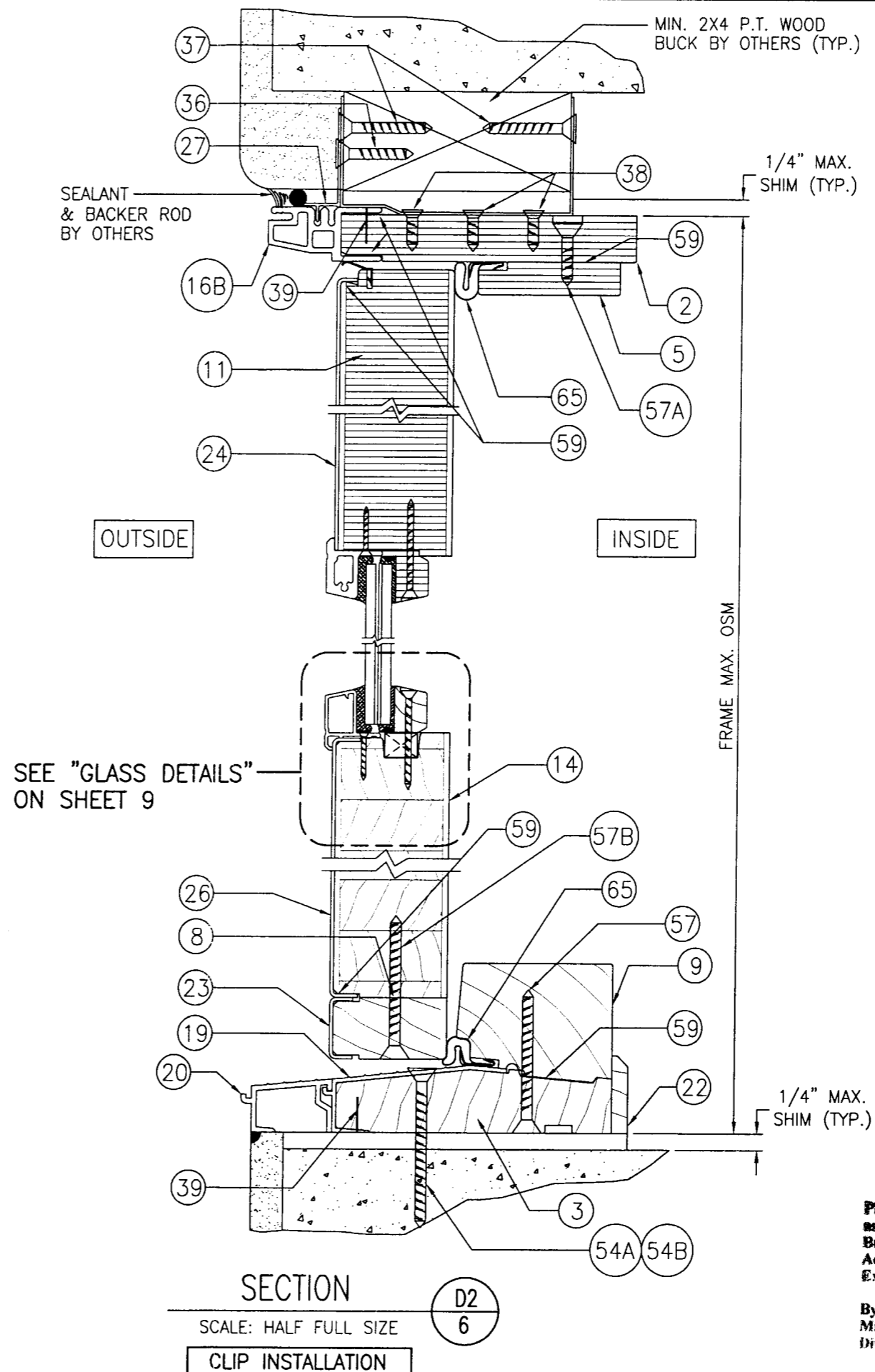
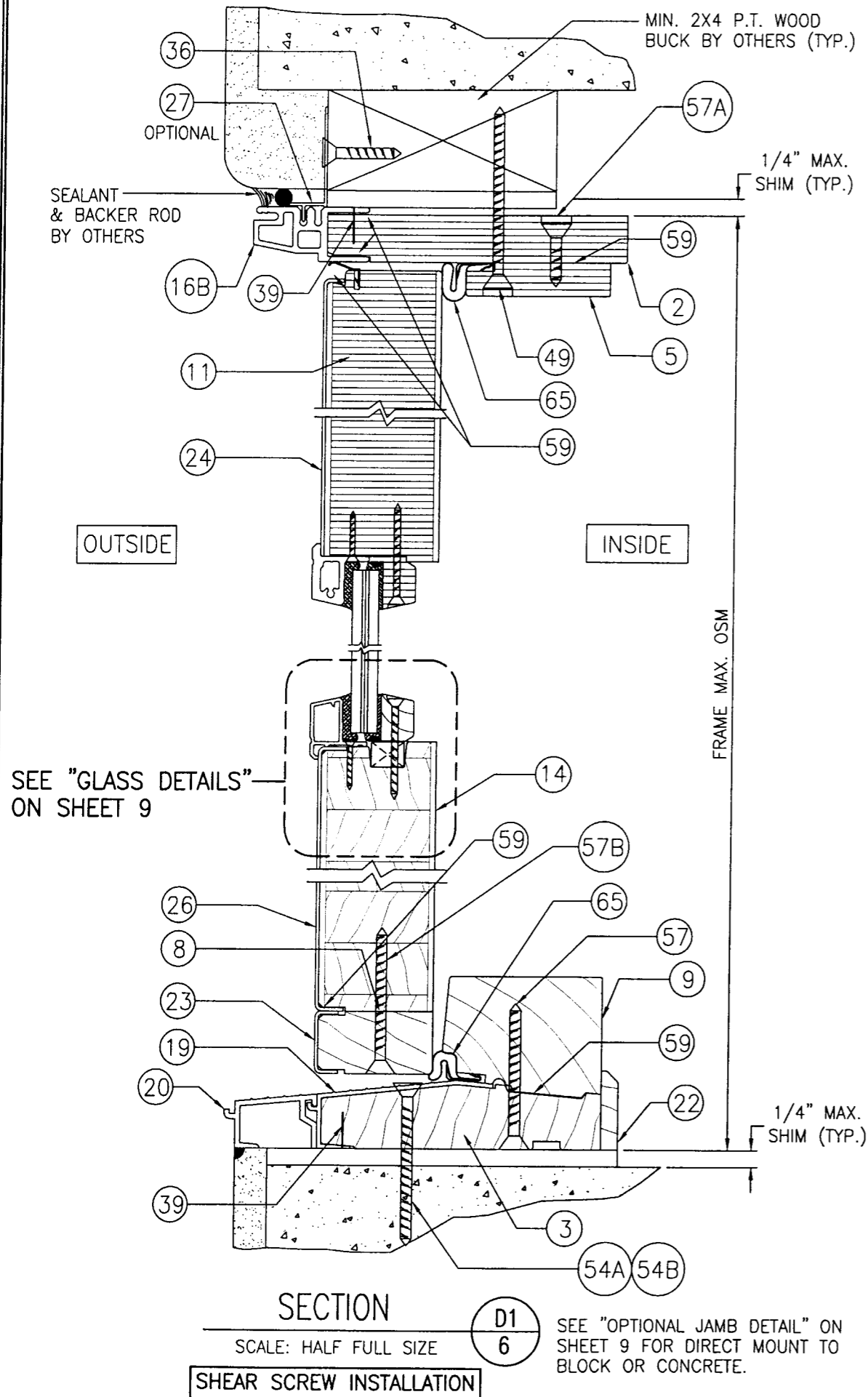
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PLOT: 1=16		DATE: 05/13/03	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE ALUMINUM CLAD WOOD FRENCH IMPACT DOORS			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903		MANUFACTURER KML WINDOWS, INC. 23 BUCHANAN COURT LONDON, ONTARIO, CANADA N5Z4P9 (519) 681-7012	
CERTIFICATION JUN 18 2003  WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1228A		REV.	
SHEET NO. 3 OF 12			




PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 03-0625.03
 Expiration Date 04/20/04

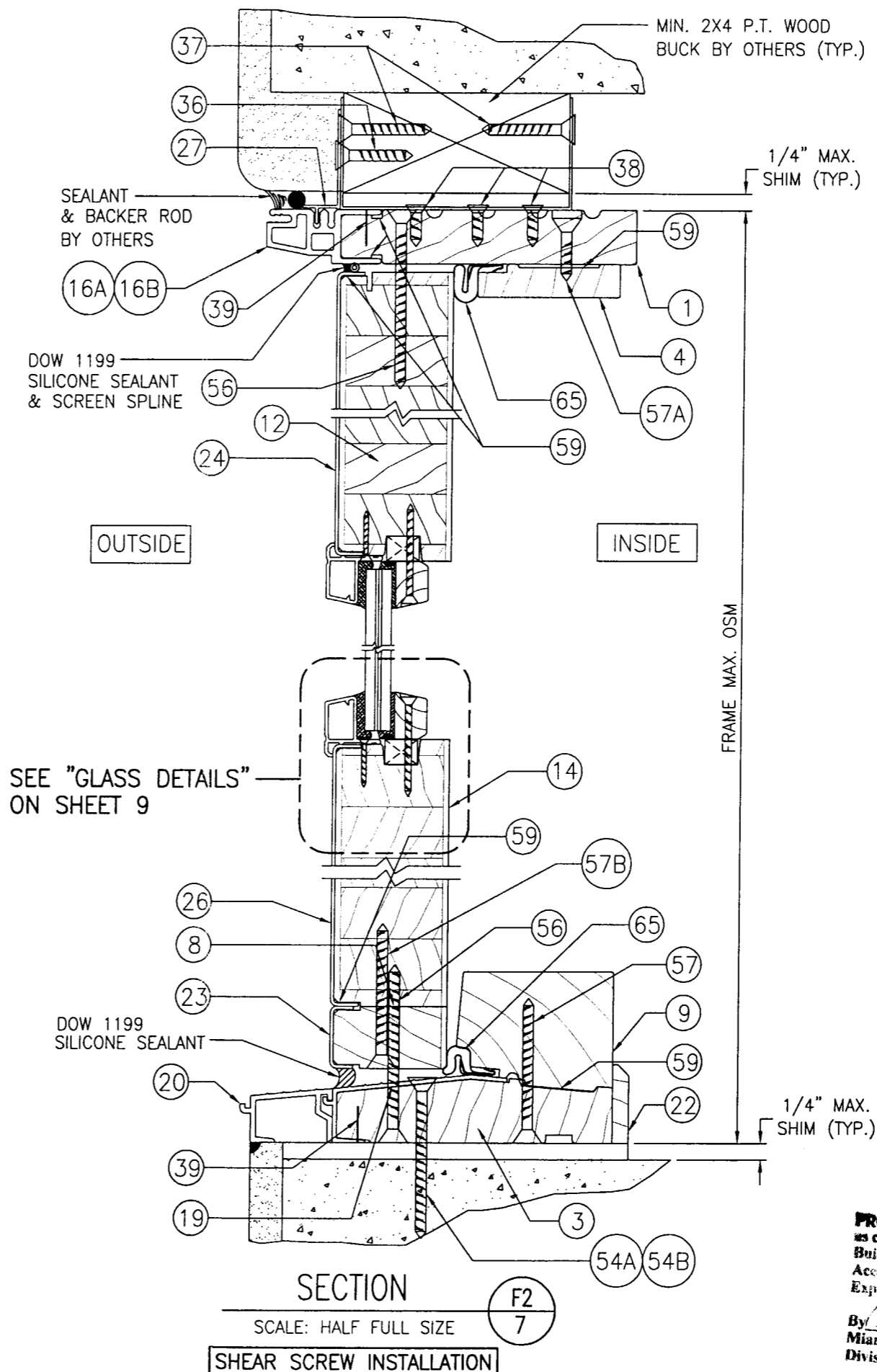
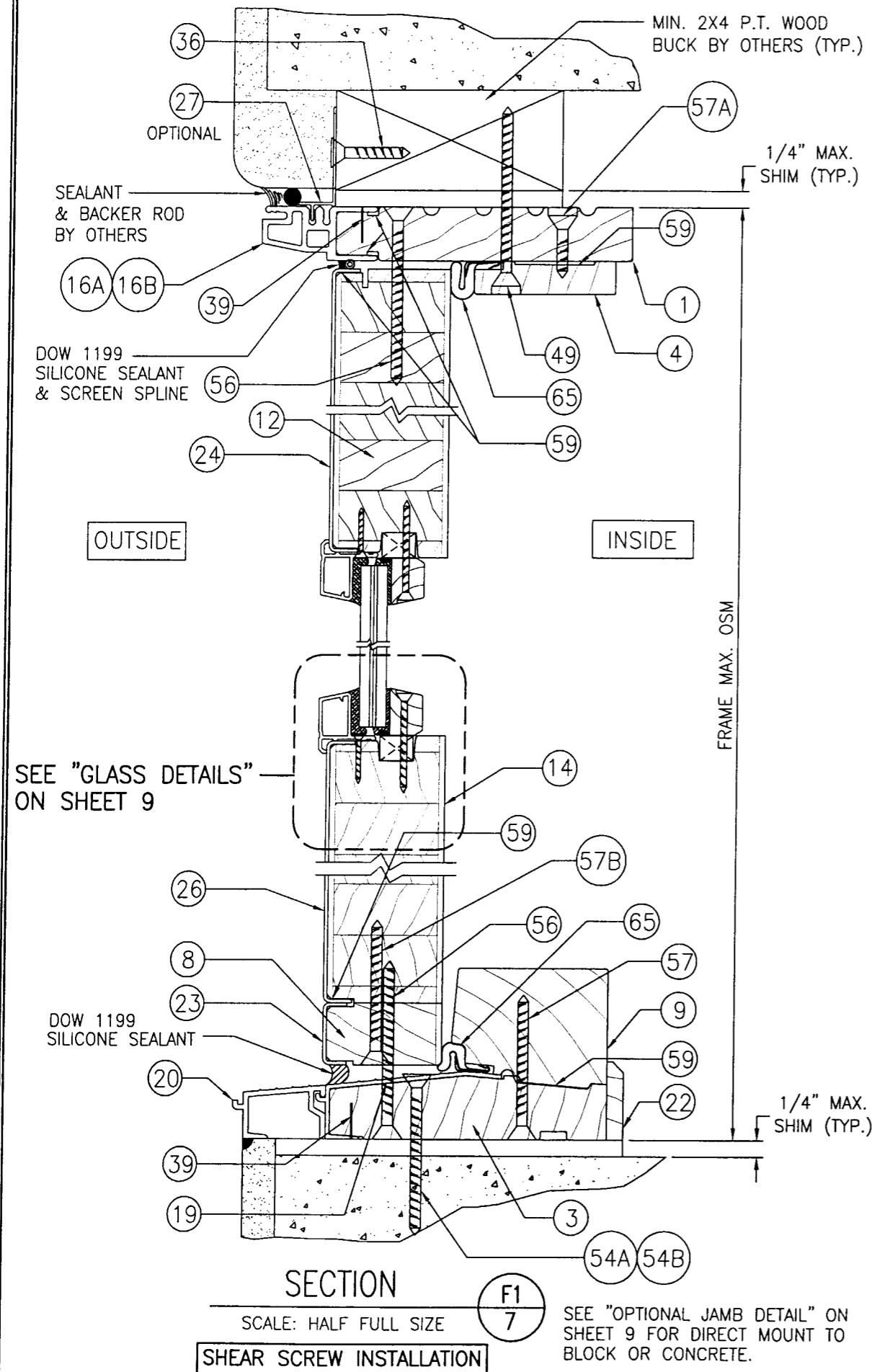
By *Warren W. Schaefer*
 Miami Dade Product Control
 Division

DRAWING TITLE	DRAWN BY: K.P.S.		CHECKED BY: W.W.S.	
	PLOT: 1=2		DATE: 05/13/03	
REVISION	NO.	DATE	BY	DESCRIPTION
ALUMINUM CLAD WOOD FRENCH IMPACT DOORS MANUFACTURER: KML WINDOWS, INC. 23 BUCHANAN COURT LONDON, ONTARIO, CANADA N5Z4P9 (519) 681-7012 CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903				
CERTIFICATION	JUN 18 2003 WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
	DRAWING NO. 1228A SHEET NO. 5 OF 12			



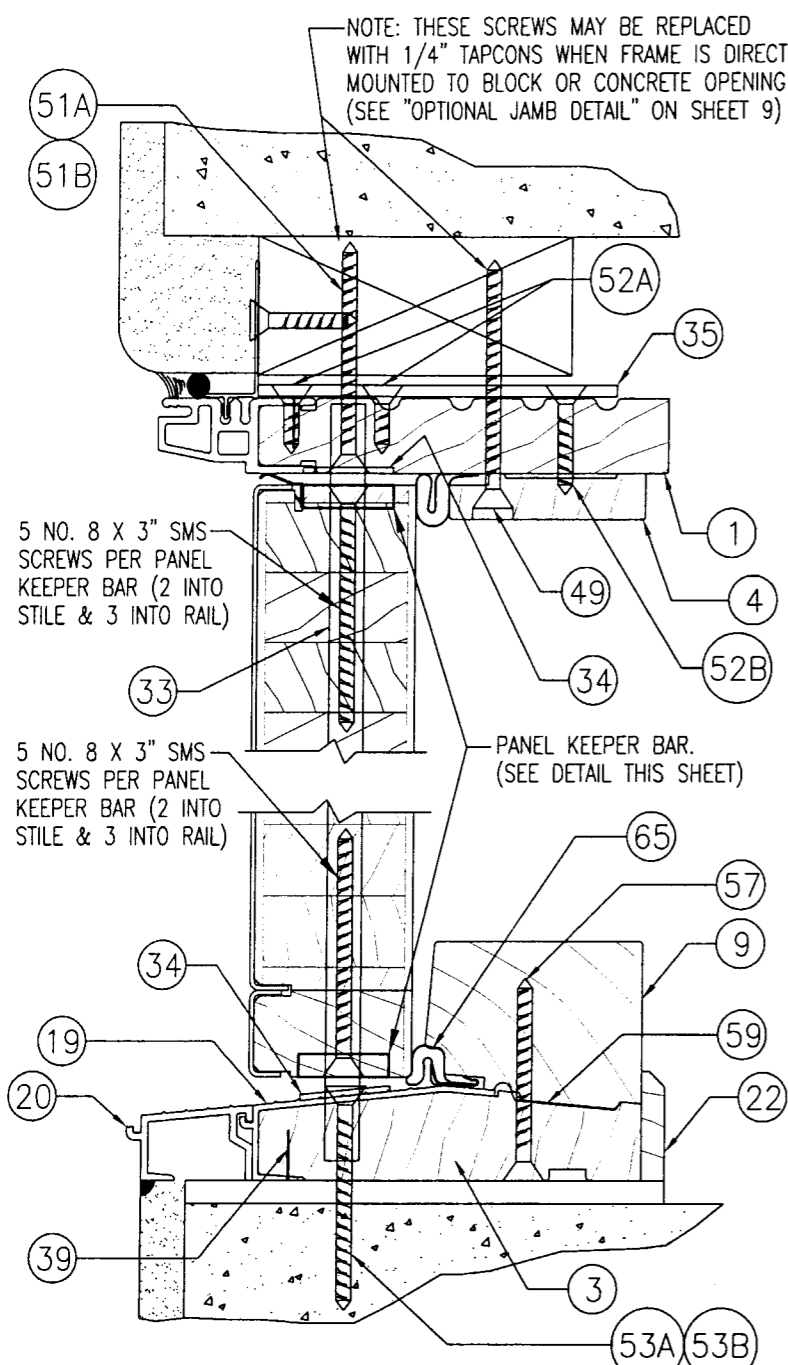
PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 03-0625.03
 Expiration Date 04/26/04
 By: *Warren W. Schaefer*
 Miami Dade Product Control
 Division

DRAWN BY: K.P.S.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 05/13/03	
NO.	REVISION DESCRIPTION	DATE	BY
DRAWING TITLE ALUMINUM CLAD WOOD FRENCH IMPACT DOORS			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903		MANUFACTURER KML WINDOWS, INC. 23 BUCHANAN COURT LONDON, ONTARIO, CANADA N5Z4P9 (519) 681-7012	
CERTIFICATION JUN 18 2003 		WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1228A		REV.	
SHEET NO. 6 OF 12			

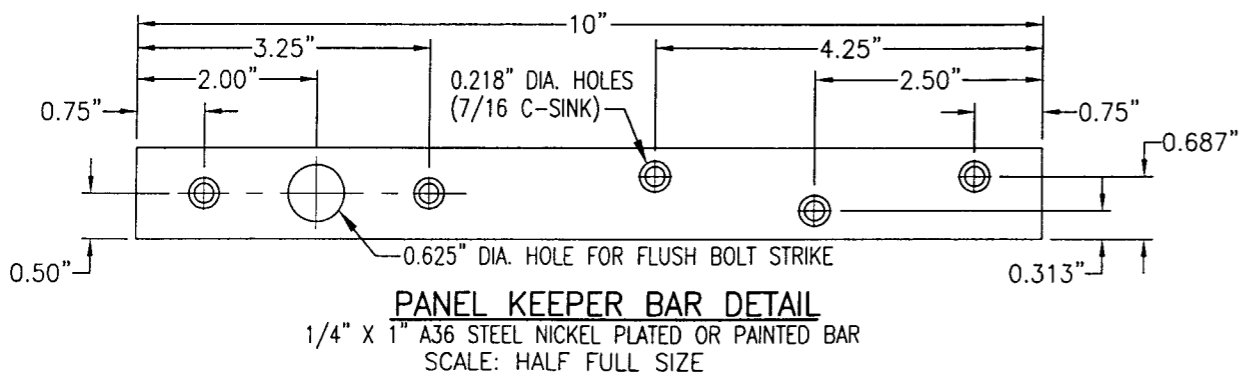


PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. 03-0625-03
 Expiration Date 04/26/04
 By: *Warren W. Schaefer*
 Miami Dade Product Control
 Division

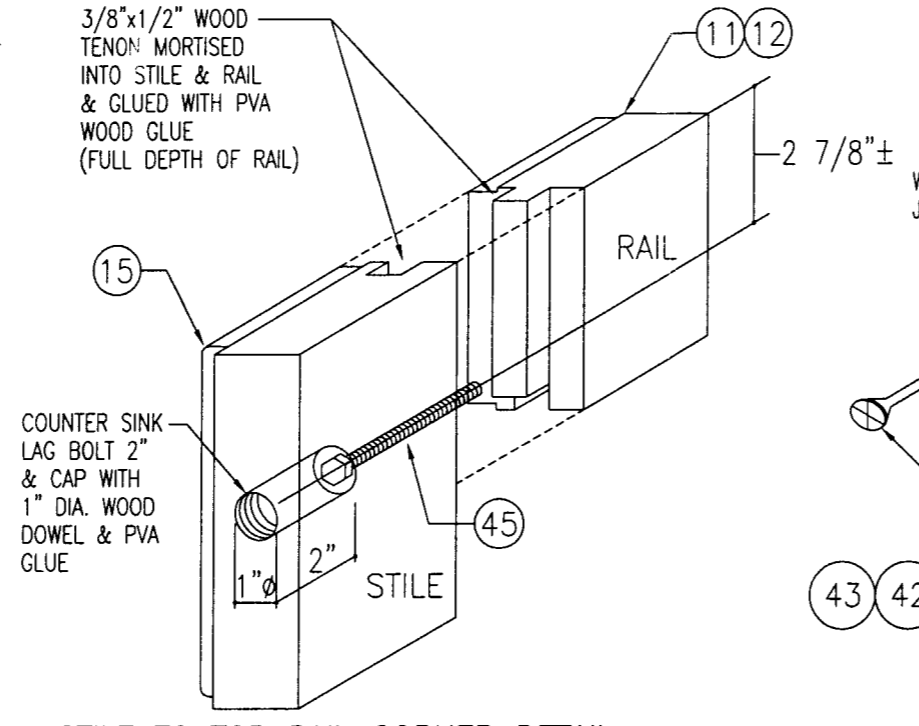
DRAWN BY: K.P.S.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 05/13/03	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE ALUMINUM CLAD WOOD FRENCH IMPACT DOORS			
MANUFACTURER KML WINDOWS, INC. 23 BUCHANAN COURT LONDON, ONTARIO, CANADA N5Z4P9 (519) 681-7012			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903			
CERTIFICATION JUN 18 2003 WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1228A		REV.	
SHEET NO. 7		OF 12	



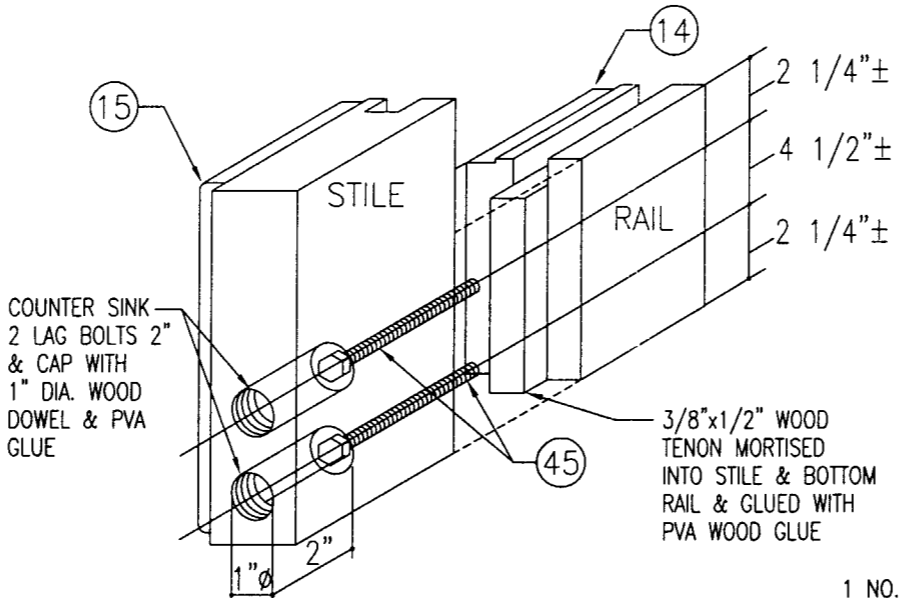
SECTION @ STRIKE PLATES
SCALE: HALF FULL SIZE



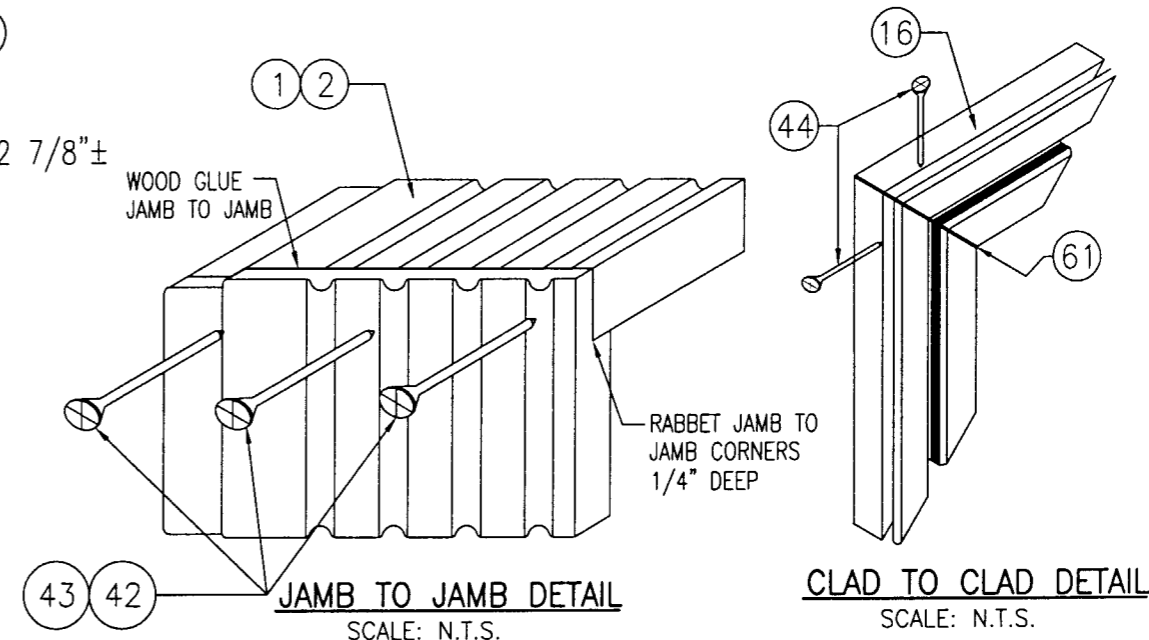
PANEL KEEPER BAR DETAIL
1/4" X 1" A36 STEEL NICKEL PLATED OR PAINTED BAR
SCALE: HALF FULL SIZE



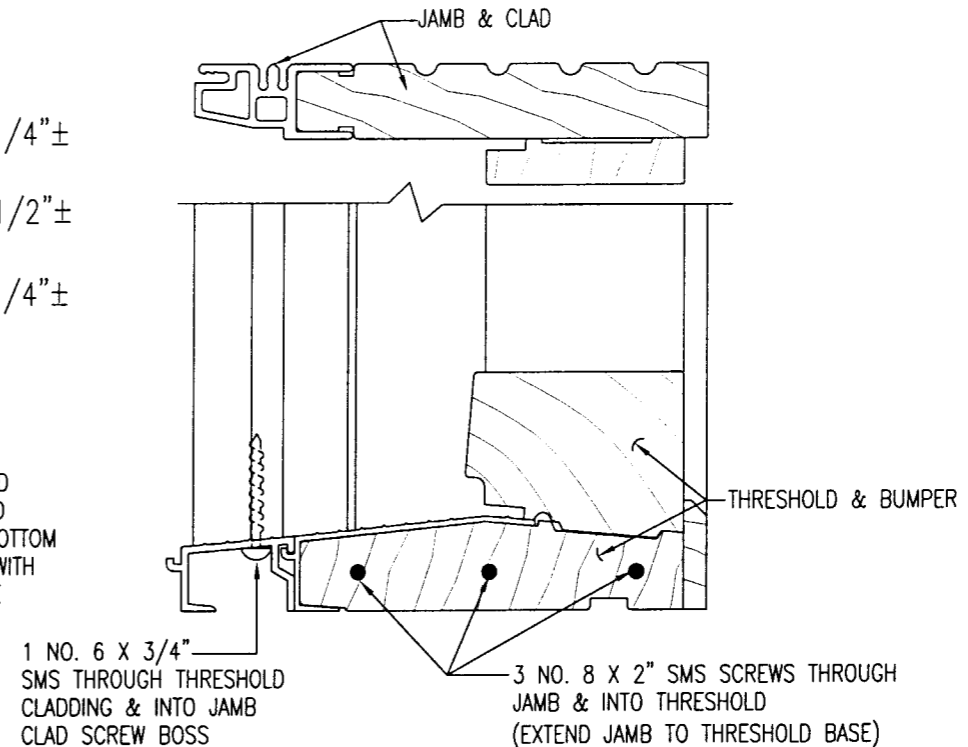
STILE TO TOP RAIL CORNER DETAIL
SCALE: N.T.S.



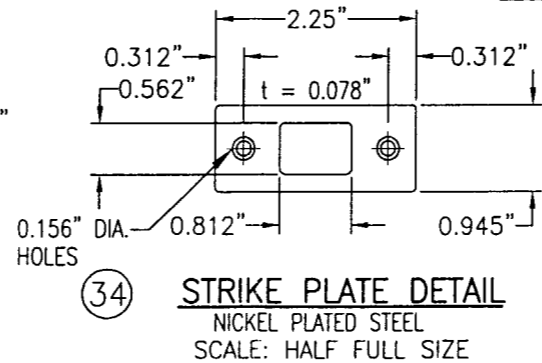
SASH STILE TO RAIL CORNER DETAIL
SCALE: N.T.S.



JAMB CORNER DETAILS
SCALE: N.T.S.




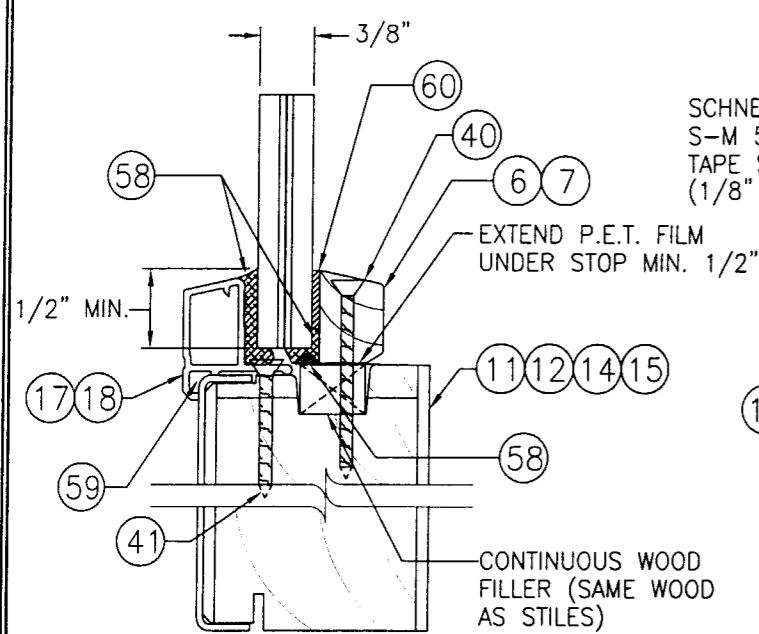
THRESHOLD TO JAMB CORNER DETAIL



STRIKE PLATE DETAIL
NICKEL PLATED STEEL
SCALE: HALF FULL SIZE

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance Date 03-06-23-03
Expiration Date 04-26-04
By: *Warren W. Schaefer*
Miami Dade Product Control
Division

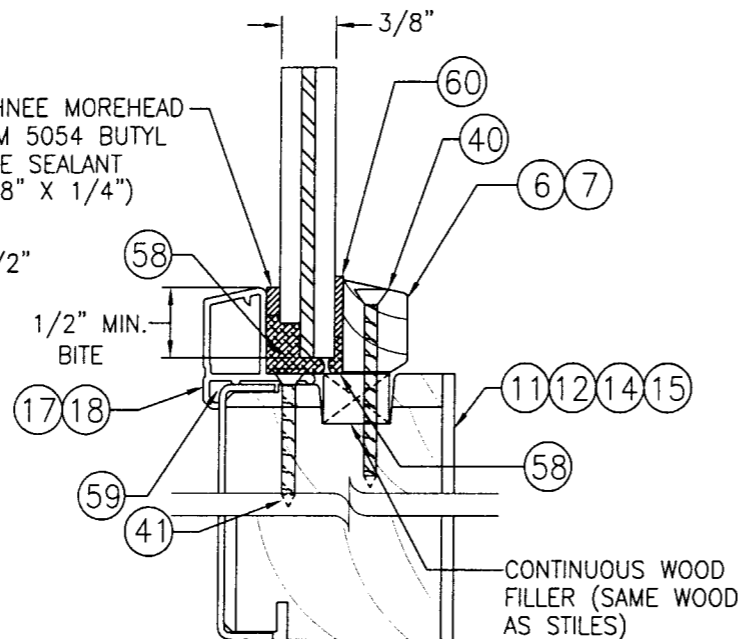
DRAWING TITLE ALUMINUM CLAD WOOD FRENCH DOORS		DRAWN BY: K.P.S.		CHECKED BY: W.W.S.		
		PLOT: 1=2		DATE: 05/13/03		
CERTIFICATION JUN 18 2003 	DRAWING NO. 1228A	SHEET NO. 8 OF 12	CONSULTANTS W. W. SCHAEFFER ENGINEERING & CONSULTING, P.A. 8995 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903		MANUFACTURER KML WINDOWS, INC. 23 BUCHANAN COURT LONDON, ONTARIO, CANADA N5Z4P9 (519) 681-7012	
			REVISION DESCRIPTION		BY	
			NO.		DATE	



TYPICAL GLASS & GLAZING DETAIL

SCALE: 3/4 FULL SIZE

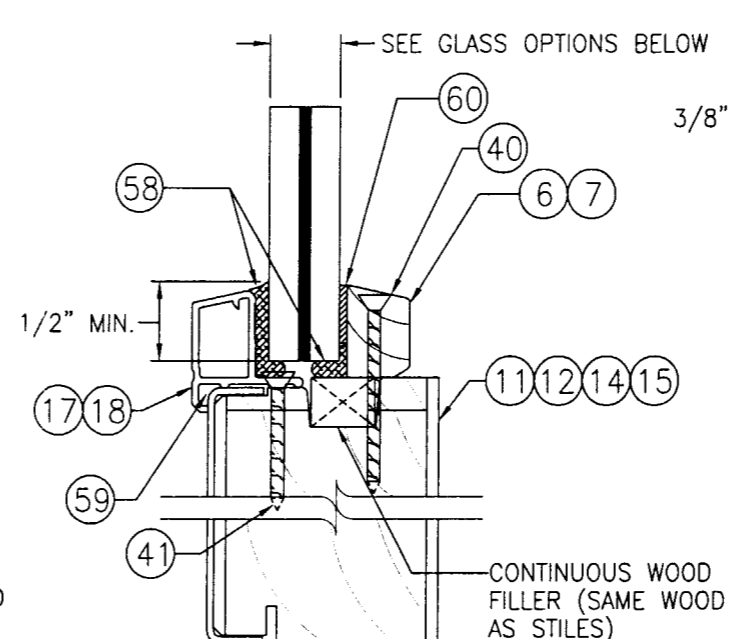
GLASS OPTION 1: 3/8" THICK NEBULA SAFETY-PLUS
(5/32" AN/0.06" RESIN/ 0.01"
PET/0.06" RESIN/5/32" AN)



TYPICAL GLASS & GLAZING DETAIL

SCALE: 3/4 FULL SIZE

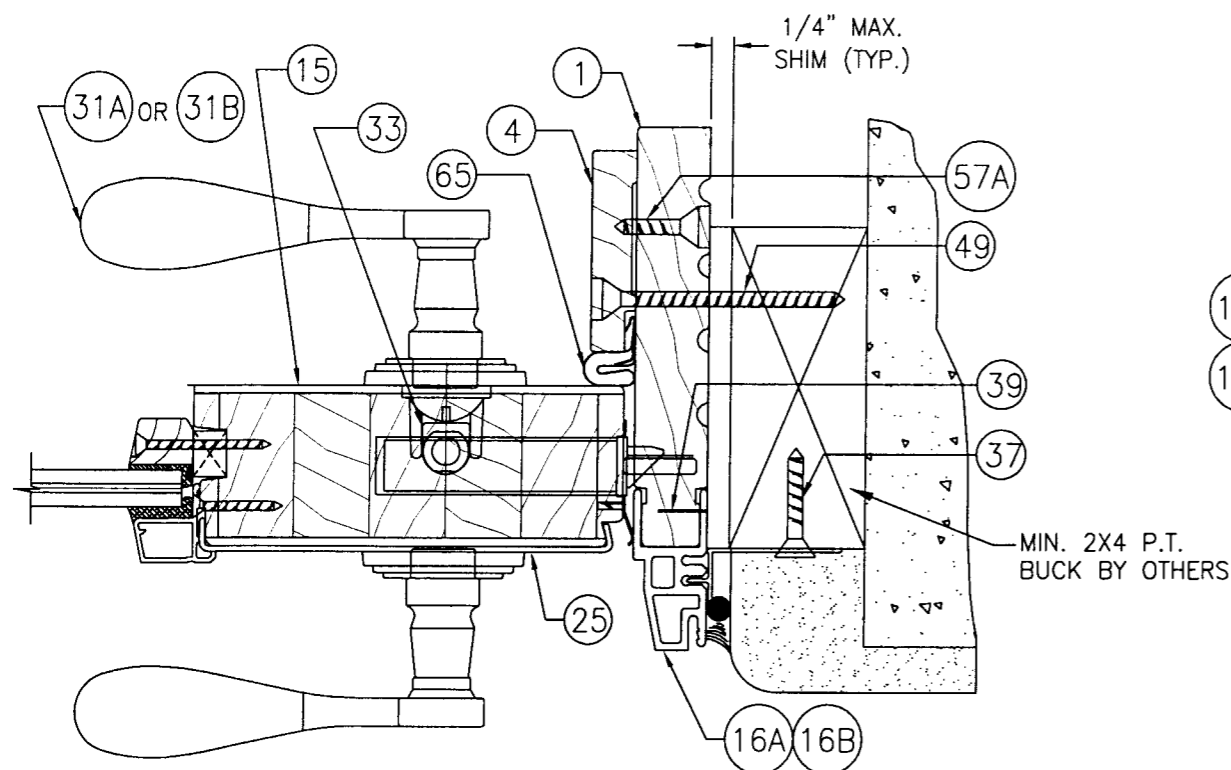
GLASS OPTION 2: 3/8" THICK DUPONT
DLUBAK "STEP GLASS"
(1/8" TEMPERED/0.120"
PVB/1/8" TEMPERED)



TYPICAL GLASS & GLAZING DETAIL

SCALE: 3/4 FULL SIZE

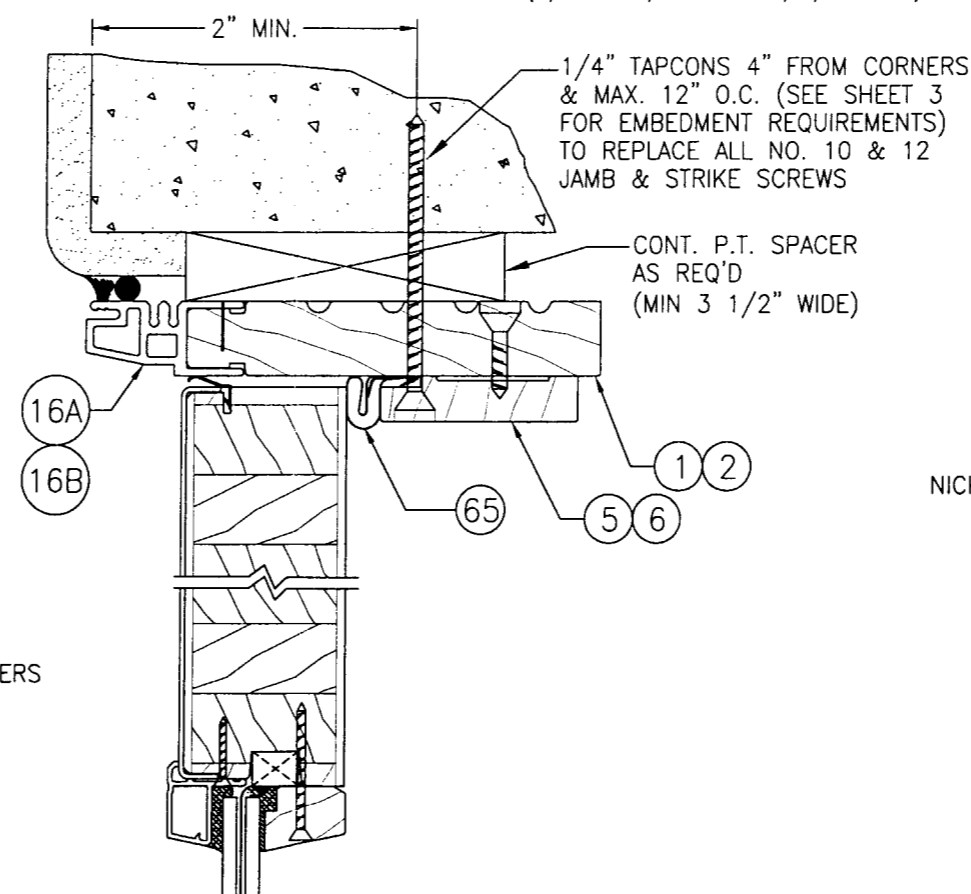
GLASS OPTION 3: 9/16" THICK LAMINATED GLASS WITH SAFLEX
PVB (1/4" AN/0.09" PVB/1/4" AN)
GLASS OPTION 4: 3/8" THICK LAMINATED GLASS WITH SAFLEX
PVB (5/32" AN/0.09" PVB/5/32" AN)



SECTION

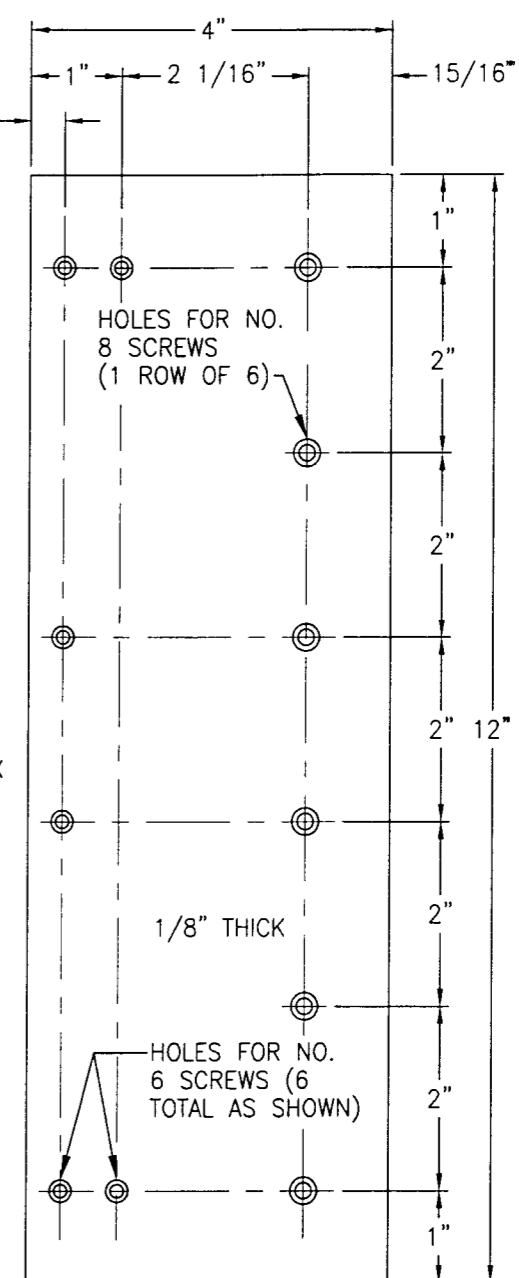
SCALE: HALF FULL SIZE
SIMILAR FOR CLIP MOUNT

G
9



OPTIONAL JAMB DETAIL FOR DIRECT MOUNT TO CONCRETE OR BLOCK

(TYP. ALL UNITS)
SCALE: 1/2 FULL SIZE



35 STRIKE PLATE DETAIL

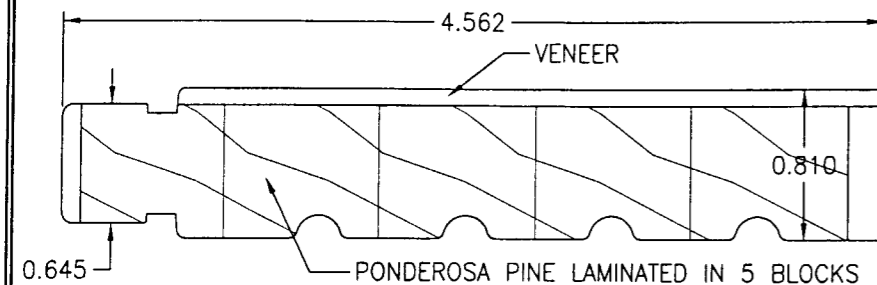
NICKEL PLATED OR PAINTED A446 GRADE A STEEL
SCALE: HALF FULL SIZE

PRODUCT REVISED

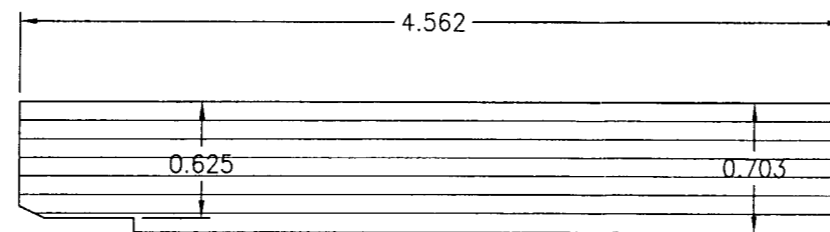
as complying with the Florida
Building Code
Acceptance No. 03-0625.03
Expiration Date 04/26/04

By: *Warren W. Schaefer*
Miami Dade Product Control
Division

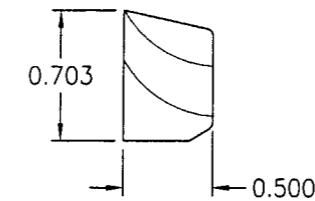
DRAWING NO. 1228A	SHEET NO. 9 OF 12	REV.	WARREN W. SCHAEFER, P.E. P.E. NO. 44135	JUN 18 2003	CERTIFICATION	DRAWING TITLE		DRAWN BY: K.P.S.		CHECKED BY: W.W.S.	
						ALUMINUM CLAD WOOD FRENCH IMPACT DOORS		PLOT: 1=2		DATE: 05/13/03	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL; SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903		MANUFACTURER KML WINDOWS, INC. 23 BUCHANAN COURT LONDON, ONTARIO, CANADA N5Z4P9 (519) 681-7012		NO.		REVISION DESCRIPTION		BY		DATE	



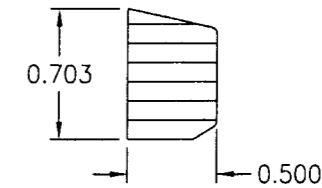
① LINEAL WOOD FRAME JAMB
(PONDEROSA PINE)



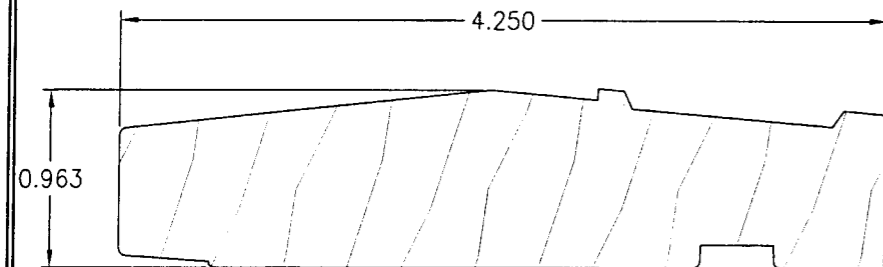
② RADIAL WOOD FRAME JAMB
(LAMINATED VENEER)



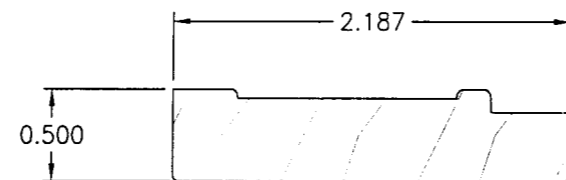
⑥ LINEAL WOOD GLAZING STOP
(PONDEROSA PINE)



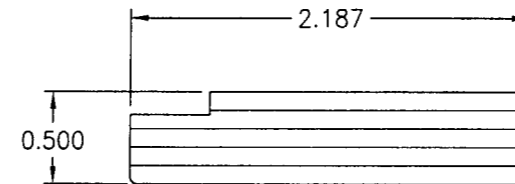
⑦ RADIAL WOOD GLAZING STOP
(LAMINATED VENEER)



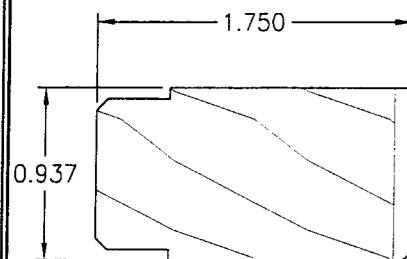
③ WOOD SUBSILL
(PONDEROSA PINE)



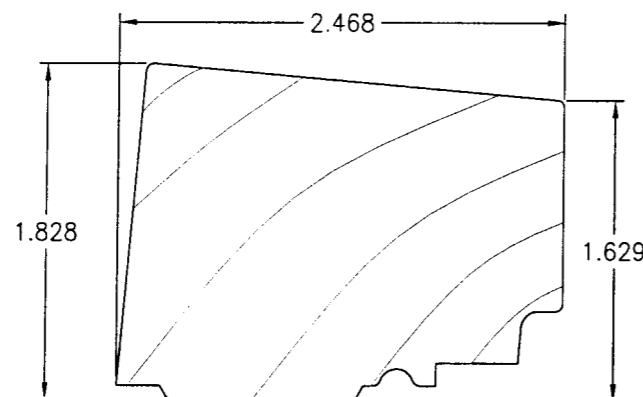
④ LINEAL DOOR STOP
(PONDEROSA PINE)



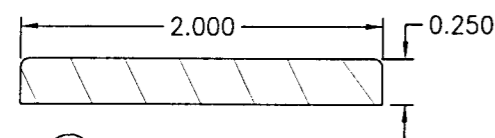
⑤ RADIAL DOOR STOP
(LAMINATED VENEER)



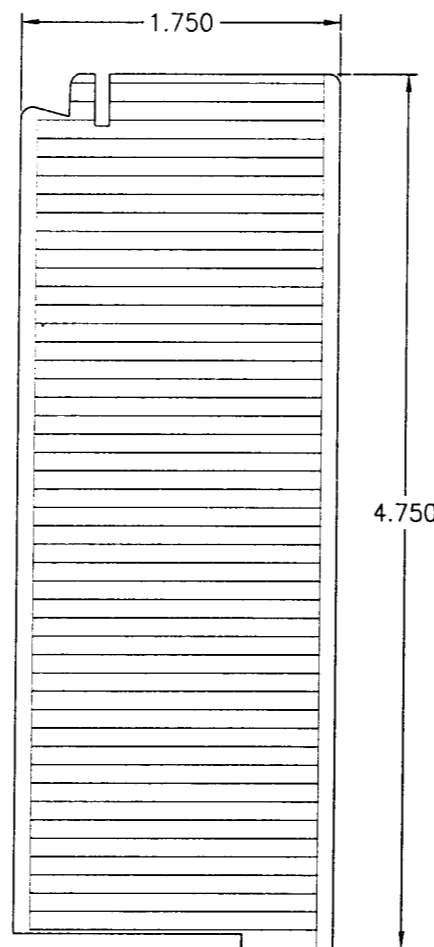
⑧ WOOD DOOR EXTENDER
(PONDEROSA PINE)



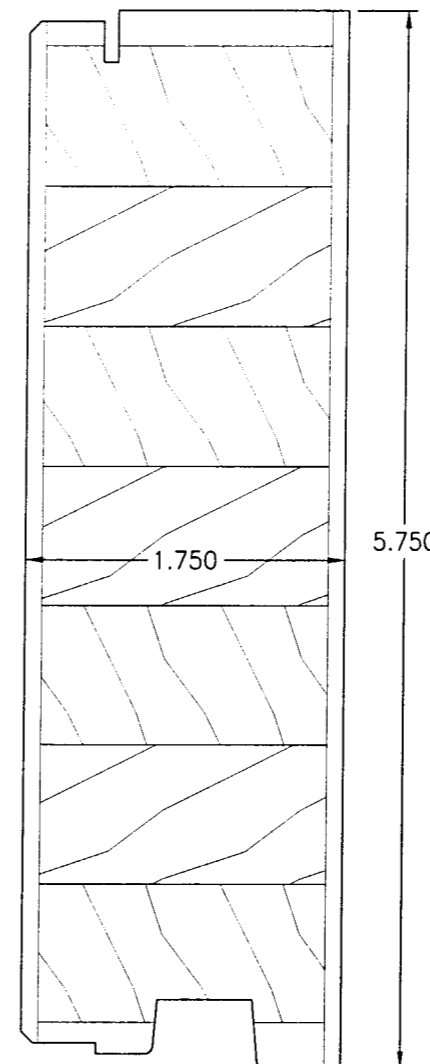
⑨ DOOR THRESHOLD CAP BUMPER
(PONDEROSA PINE)



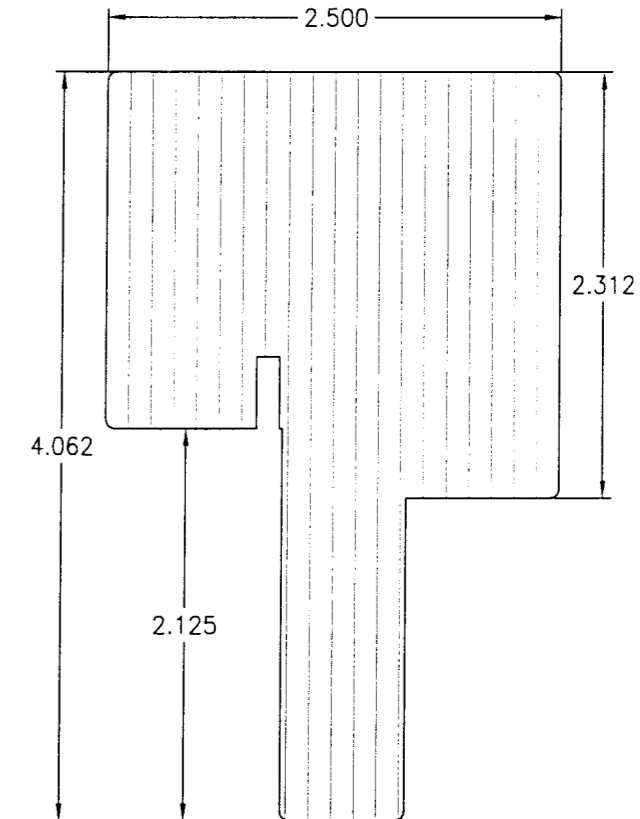
⑩ ASTRAGAL CAP
(PONDEROSA PINE)



⑪ RADIAL DOOR RAIL
(LAMINATED VENEER)



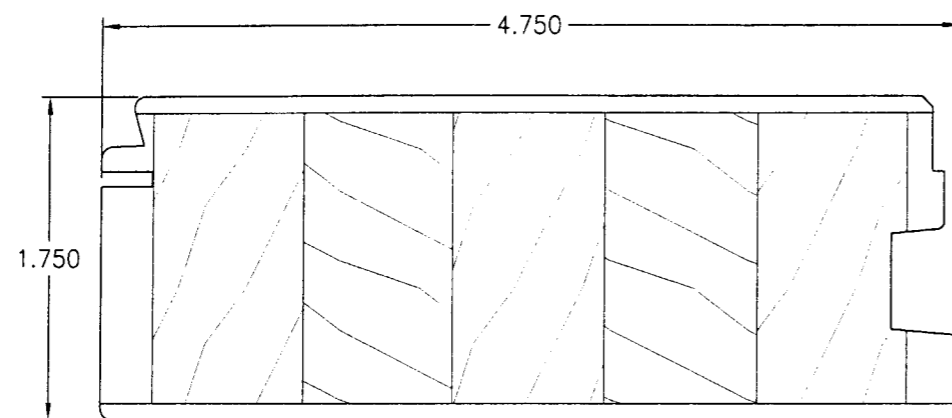
⑫ LINEAL TOP DOOR RAIL
(PONDEROSA PINE)



⑬ ASTRAGAL
(LAMINATED VENEER)

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 03-0625.03
Expiration Date 04/26/04
By: *Warren W. Schaefer*
Miami Gate Product Control

DRAWING TITLE		DRAWN BY:		CHECKED BY:	
ALUMINUM CLAD WOOD FRENCH IMPACT DOORS		K.P.S.		W.W.S.	
CONSULTANTS		PLOT:		DATE:	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.		1=1		05/13/03	
8895 N. MILITARY TRAIL, SUITE C-204		DATE			
PALM BEACH GARDENS, FL 33410		BY			
PHONE: 561-775-4902 FAX: 561-775-4903		REVISION DESCRIPTION			
		NO.			
MANUFACTURER		KML WINDOWS, INC.			
		23 BUCHANAN COURT			
		LONDON, ONTARIO, CANADA N5Z4P9			
		(519) 681-7012			
CERTIFICATION		JUN 18 2003			
DRAWING NO.		REV.			
1228A					
SHEET NO.					
10 OF 12					



Technical drawing of a mechanical part. The drawing shows a side view of a component with a complex internal profile. Two dimensions are indicated: a horizontal dimension of 0.860 and a vertical dimension of 0.916.

Technical drawing of a rectangular profile. The width is dimensioned as 0.860 and the height as 0.916. The profile has a complex internal structure with a central vertical channel and various internal features.

Technical drawing of a 16 GAGE plate. The plate is rectangular with a width of 1.75" and a length of 6" - 9". It features 0.125" DIA. HOLES arranged in a grid. A 0.25" DIA. HOLE is also indicated. The text "16 GAGE" is centered on the plate.

Technical drawing of a mechanical part with dimensions: 1.750, 0.078, and 0.810.

Technical drawing of a vertical rectangular component. The drawing shows a side view with the following dimensions:

- Top horizontal edge: 0.425
- Left vertical edge: 1.026
- Right vertical edge: 5.67
- Bottom horizontal edge: 0.050

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Expiration Date **04/26/04**
By *Glenn D. Bern*
Miami Dade Product Control
Division

[illegible]

MATERIAL LIST			
PART NO.	REF. NO.	DESCRIPTION	NOTES
PARTS & EXTRUSIONS			
1	PF1010	LINEAL JAMB WOOD MEMBER	SEE NOTE 1
2	PF1231	CURVED JAMB WOOD MEMBER	LAMINATED VENEER
3	PF1358	WOOD SUBSILL FOR THRESHOLD	SEE NOTE 1
4	PF1351	LINEAL WOOD DOOR STOP	SEE NOTE 1
5	PF1351	RADIAL WOOD DOOR STOP	LAMINATED VENEER
6	PF1008	WOOD LINEAL GLAZING STOP	SEE NOTE 1
7	PF1008	WOOD RADIAL GLAZING STOP	LAMINATED VENEER
8	PF1169	WOOD BOTTOM RAIL EXTENDER	SEE NOTE 1
9	PF1362	DOOR THRESHOLD CAP/BUMPER	SEE NOTE 1
10	PF1507	ASTRAGAL CAP	SEE NOTE 1
11	PF1130	RADIAL DOOR TOP RAIL	LAMINATED VENEER
12	PF1131	LINEAL DOOR TOP RAIL	SEE NOTE 1
13	PF1489	WOOD ASTRAGAL	LAMINATED VENEER
14	PF1132	WOOD BOTTOM RAIL	SEE NOTE 1
15	PF1130	WOOD STILE	SEE NOTE 1
16A/B	PF1001/1002	JAMB CLADS	6063-T5 ALUMINUM
17	PF1017	RADIAL GLASS STOP	6063-T5 ALUMINUM
18	PF1458	ALUMINUM LINEAL GLASS STOP	6063-T5 ALUMINUM
19	PF1086	4 9/16" OUTSWING DOOR SILL	6063-T5 ALUMINUM
20	PF1083	THRESHOLD EXTENDER	6063-T5 ALUMINUM
22	PF1295	INTERIOR THRESHOLD TRIM	SEE NOTE 1
23	PF1172	BOTTOM RAIL EXTENDER CLADDING	3003-H14 ALUMINUM
24	PF1135	TOP RAIL CLAD	3003-H14 ALUMINUM
25	PF1134	STILE CLAD	6063-T5 ALUMINUM
26	PF1136	BOTTOM RAIL CLAD	3003-H14 ALUMINUM
27	PF1214 PF1326	VINYL NAIL FIN	OPTIONAL WITH SHEAR SCREW INSTALLATION
28	SK1031	GALVANIZED 16 GA. STEEL INSTALLATION CLIP	GALVANIZED STEEL, INC. (Fy = 33 ksi MIN.) WITHIN 4" OF CORNERS & 12" MAX. O.C.
30	SK1156	FIVE KNUCKLE FULL MORTISE HINGE	STANLEY NO. FBB191; STAINLESS STEEL (4 PER DOOR PANEL)
31A	-	G-U US TRIM SERIES 2000 HANDLE	USE WITH PART #32 LOCKING HARDWARE (BRASS)
31B	SK1415	W&F MFG. SERIES 1200 LOCKSET	INCLUDES HANDLE & SINGLE DEAD BOLT (BRASS)
32	-	G-U 3-POINT DOOR LOCKSET	US TRIPACT DOOR BOLT SYS. (USE WITH #31A)
33	SK1193	KML INTERIOR FLUSH BOLT	1 TOP & BOTTOM EACH DOOR PANEL INTERIOR
34	SK1597	0.945"x2.25"x0.078" STL STRIKE PLATE (Fy = 33 ksi MIN.)	1 AT EACH FLUSH BOLT STRIKE (HEAD & SILL) NICKEL PLATED STEEL
35	SK1598	4"x12" X1/8" STEEL STRIKE PLATE (MIN. ASTM A446 GRADE A STEEL)	LOCATED AT CENTER/TOP OF HEAD JAMB NICKEL PLATED OR PAINTED STEEL
FASTENERS			
36	-	#8 X 1 1/4" SMS SCREW OR 1 5/8" DRYWALL SCREW	WITHIN 4" FROM ENDS & MAX. 10 1/2" O.C. WITH FIN
37	-	#8 X 1 1/4" SMS SCREW	2 PER CLIP INTO BUCK (1 EA. SIDE OF BUCK)
38	-	#8 X 5/8" PAN HEAD SMS SCREW	3 PER CLIP INTO JAMB
39	-	3/8" LONG STAPLE	WITHIN 3" FROM CORNERS & MAX. 8" O.C.



ALL WOOD USED WITH TESTED UNITS IS MINIMUM GRADE 2 PONDEROSA PINE. ALTERNATE WOOD SPECIES ACCEPTABLE WITH THIS PRODUCT ARE THE FOLLOWING MINIMUM GRADE 2 WOODS:

1. MAHOGANY	5. DOUGLAS FIR
2. OAK	6. MAPLE
3. CHERRY	7. TEAK
4. CYPRUS	

MATERIAL LIST			
PART NO.	REF. NO.	DESCRIPTION	NOTES
40	-	#6 X 1 5/8" SMS SCREW	WITHIN 3" FROM CORNERS & MAX. 6" O.C.
41	-	#6 X 3/4" SMS SCREW	WITHIN 3" FROM CORNERS & MAX. 12" O.C.
42	-	#8 X 2" SMS SCREW	3 @ EA. RECTANGULAR JAMB CORNER
43	-	#8 X 1 1/2" SMS SCREW	3 @ EA. RADIUS JAMB CORNER
44	-	#6 X 3/4" SMS SCREW	2 @ EA. JAMB CLAD CORNER INTO CLAD SPLINES
45	-	3/8" X 5" LAG BOLT	1 @ TOP STILE & RAIL, 2 BOTTOM STILE & RAIL
46	-	#12 X 3/4" SMS SCREW	4 @ EA. HINGE INTO JAMB (EXCLUDING TOP HINGE)
47	-	#12 X 1 1/4" S.S. SCREW	4 @ EA. HINGE INTO STILE
48A	-	#12X2 1/2" S.S. OR BRASS SMS	2 @ TOP HINGE ONLY THRU JAMB INTO BUCK
48C	-	1/4"-20 X 3/4" MACHINE SCREW	2 @ TOP HINGE ONLY (WITH T-NUT)
49	-	#10 SMS SCREWS (1 3/8" MIN. BUCK EMBED)	WITHIN 4" FROM CORNERS & MAX. 12" O.C.
50	-	#8 X 1 3/4" SMS SCREW	2" FROM ASTRAGAL ENDS & MAX. 12" O.C.
51A	-	#10 SMS SCREWS (MIN. 1 3/8" BUCK EMBED)	2 THRU EA. STRIKE PLATE, JAMB & INTO BUCK
51B	-	1/4" TAPCON (WHEN INTO CONCR.) (MIN. 1 1/4" CONCR. EMBED)	2 THRU EA. STRIKE PLATE, JAMB & INTO CONCR.
52A	-	#6 X 3/4" SMS SCREW	6 THRU TOP STRIKE PLATE & INTO HEAD JAMB
52B	-	#8 X 1 1/4" SMS SCREW	6 THRU TOP STRIKE PLATE & INTO HEAD JAMB
53A	-	1/4" TAPCON (WHEN INTO CONCR.) (MIN. 1 1/4" CONCR. EMBED)	2 THRU EA. SILL STRIKE PLATE & INTO CONCRETE
53B	-	#10 SMS SCREW (MIN. 1 3/8" FRAMING EMBED)	2 THRU EA. SILL STRIKE PLATE & INTO FRAMING
54A	-	1/4" TAPCON (WHEN INTO CONCR.) (MIN. 1 1/4" CONCR. EMBED)	WITHIN 4" OF CORNERS & MAX. 12" O.C.
54B	-	#10 S/STL SCREWS (MIN. 1 3/8" FRAMING EMBED)	WITHIN 4" OF CORNERS & MAX. 12" O.C.
55	-	#10 X 1.5" SMS SCREW (SIDE JAMB TO MULL PLATE)	4" FROM CORNERS & MAX. 12" O.C.
56	-	#10 X 2 1/2" SMS SCREW	4" FROM CORNERS & MAX 12" O.C.
57	-	#8 X 1 3/4" SMS	3" FROM CORNERS & MAX 12" O.C.
57A	-	#8 X 1" SMS SCREW	3" FROM CORNERS & MAX. 8" O.C.
57B	-	#8 X 2 1/2" SMS SCREW	3" FROM CORNERS & MAX 12" O.C.
SEALANTS			
58	-	DOW 995 SILICONE	FOR 1/2" GLAZING BITE
59	-	DOW 1199 STRUCTURAL SILICONE ADHESIVE	CONT. CLADDING TO JAMB & DOOR STOP TO JAMB
OTHER			
60	-	NORTON NORGLAZE .0625" X .437" GLAZING TAPE	POLYOLEFIN FOAM W/ ACRYLIC ADHESIVE
61	-	TREMCO 440 BUTYL TAPE GASKET	TRIM OFF AT EDGES (TYP. AT JAMB CLAD CORNERS)
65	PF1371	FRAME WEATHERSEAL	SCHLEGEL
66	PF1026	0.415" X 0.489" RAINSKIRT	SCHLEGEL EXTRUDED FLEXIBLE COPOLYMER

FASTENER MINIMUM EMBEDMENTS:

- 1) ALL TAPCONS MUST HAVE A MIN. CONCRETE/BLOCK EMBED = 1 1/4"
- 2) ALL JAMB TO BUCK SCREWS MUST HAVE A MIN. BUCK EMBED = 1 3/8" AT NO. 10 SCREWS & 1 1/2" AT NO. 12 SCREWS.

LENGTHEN SCREWS AS REQ'D TO OBTAIN REQ'D MIN EMBEDS.

FASTENER MINIMUM EDGE DISTANCE:

WOOD = 1"
CONCR./BLOCK = 2"

PRODUCT REVISED

as complying with the Florida Building Code
Acceptance No. 03-0625.03
Expiration Date 04/26/04

By: *Cleveland Brown*
Miami Dade Product Control

DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLOT: 1=1	DATE: 05/13/03
DATE	BY
REVISION	DESCRIPTION
NO.	
DRAWING TITLE ALUMINUM CLAD WOOD FRENCH IMPACT DOORS	
MANUFACTURER KML WINDOWS, INC. 23 BUCHANAN COURT LONDON, ONTARIO, CANADA N5Z4P9 (519) 681-7012	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	
CERTIFICATION JUN 18 2003	
WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1228A	REV.
SHEET NO. 12 OF 12	